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HTXPR92	6554	869221	1 - 389	15 - 403	
HTXPT68	6555	870074	1 - 455	15 - 469	W52804, AA261853, W07856, AA283855, AA077296, AA319080, W60104, AL046053, AA496322, AA402082, AA077601, AA101354, AW402545, AA078651, R11246, AW405789, AC006014, AL117583, AB014518, and AC005488.
HTXPW03	6556	922884	1 - 423	15 - 437	
HTXPW20	6557	869198	1 - 538	15 - 552	AI041722, AW301211, AA420513, AW301191, AI862185, AA338281, H68343, AW080772, AA564925, AW410784, AI283842, H73550, AI066416, AA579152, AI693979, AA508148, AI819391, AC002126, Z82190, AL049394, AC004908, AC005164, AC005924, AC005412, AC006121, AC004263, AL132992, AL020997, AL122020, AP000346, AC002425, AL031291, AP001068, AL117344, AC004983, AL031428, AC004832, AC004653, AC003029, AC003950, AJ011930, AF129756, AC005015, AP000272, AP000104, AC003982, AC006468, AP000510, AL109759, AL022336, U05309, AC004644, AL031321, AC002400, AL035703, AC006344, AC007938, U89336, AB023048, AL022320, AC005726, AL121825, AC002119, AC005585, AC005778, AL008582, AC005940, Z83845, AP000269, AP000103, AL133500, AC006385, U91323, AC005971, AL109963, AC002558, AC005072, Z95329, AC005049, AL022330, AC004032, AC002365, AC000379, AL033524, AP000553, AC002045, U82757, AC006163, AL049692, AC004841, AC006450, AC004149, AP000297, AP000112, AP000044, AC004132, AP001053, AC005899, AC007676, AC005598, AC002312, Z82178, AC002395, AC006023, AC004883, AC005529, AL132994, AC002565, AC004589, Z73417, U95090, AC004645, AC005379, AF001552, AL009179, AC003667, Z98946, AC004593, AC007878, AC007919, AC004079, Z97055, AC006270, AC005488, Z82176, AC005952, AP000279, AC005363, AC005606, AP000106, AP000038, Z95113, AC006042, AC001231, and AP000152.
HTXPX02	6558	918494	1 - 526	15 - 540	AA569047, and AC008545.
HTXQA18	6559	869184	1 - 593	15 - 607	
HTXQC36	6560	961161	1 - 633	15 - 647	
HTXQC77	6561	974033	1 - 705	15 - 719	AL021331, AL023754, AC002314, AL080243, AC004963, AC002102, AC005779, AC005757, and AC008545.

HTXQF10	6562	963403	1 - 557	15 - 571	AC006287, AC005011, AL078596, Z74477, AC007435, AC004926, and AL121653.
HTXQM11	6563	965645	1 - 650	15 - 664	Z97989.
HTXQN24	6564	963503	1 - 487	15 - 501	AI183539, R06046, H96741, N24376, AW269964, AW130380, and AA033943.
HTXQR90	6565	869139	1 - 486	15 - 500	
HTXQU07	6566	952030	1 - 386	15 - 400	AC002531.
HTXQW02	6567	918081	1 - 445	15 - 459	
HTXQW29	6568	869134	1 - 456	15 - 470	AA355311, and AL039535.
HTXRA11	6569	965596	1 - 392	15 - 406	
HTXRB38	6570	869133	1 - 344	15 - 358	AC004508, and AL049549.
HTXRC17	6571	973981	1 - 538	15 - 552	
HTXRD51	6572	921285	1 - 484	15 - 498	AA381937.
HTXRE04	6573	926371	1 - 422	15 - 436	
HTXRJ02	6574	918031	1 - 609	15 - 623	AI418397.
HTXRM86	6575	975072	1 - 564	15 - 578	
HTXRO02	6576	918009	1 - 194	15 - 208	
HTXSB88	6577	914627	1 - 832	15 - 846	AA026814, AA127612, AL110352, H54652, N78337, AA534175, AA489133, R50909, AW381645, AA329024, H51803, N78336, H08302, AW139389, AA034086, T74441, F20615, F20584, N87003, AA315270, AI168489, AA025761, N47927, AW369408, AA921775, H48655, Z46044, and AF077042.
HTXSK91	6578	915903	1 - 449	15 - 463	AI989940, AI950415, and AI656850.
HTXSR92	6579	973095	1 - 416	15 - 430	AA320236.
HTYNC52	6580	869119	1 - 450	15 - 464	AW152346, AW057660, AA225627, AC006040, AC002350, Y14768, AC002558, AL021918, AL022322, AP000553, AL096791, AC005726, AP000505, AC007536, AL080243, AL031680, and AC005015.
HTYSB62	6581	768350	1 - 333	15 - 347	AA380842, AI819188, and AW402301.
HTYSD32	6582	702994	1 - 420	15 - 434	H30348, AL009031, and AC002326.
HTZAB04	6583	973811	1 - 636	15 - 650	AW366296, AW375405, D80045, AI905856, AW367950, AW375406, AW177440, AW360811, T03269, T48593, AW378532, AW178893, C14389, AW352171, AW179328, D80164, D59467, D58283, D59859, AW377671, D80022, AW360844, C14331, D80166, D80227, D80195, AW360817, D80193, D59927, D51423, D59619, D80210, D51799, D80391, D59275, D80240, D80253, D80043, D59787, D59502, AW178905, AW378534, AW179332, AW377672, AW179023, D81030, AW352174, AW177731, D80212, D80196, D80188, D80219, C15076, AW369651, D81026, D80269, D80038, D57483, D80366, AW177501, AA305409, C14429, AW177511, D50979, AW179020, D50995, AW352158, D59889, D59610, D80024, AA305578, D51022, AW178762, AW377676, AW178907, AW178908, AW352170, AW179019, AW179024,

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HUJAB25	6584	878465	1 - 341	15 - 355	
HUJAG07	6585	951873	1 - 509	15 - 523	AI890529, AA833799, AA832067, AA743086, AA612890, AA808056, AA745893, and AW104930.
HUJAM39	6586	911399	1 - 1309	15 - 1323	AA280958, AW401543, AI940118, AW385179, AI763106, AW175909, and AA156129.
HUJBL07	6587	951874	1 - 412	15 - 426	AC005003.
HUJCB67	6588	958914	1 - 453	15 - 467	AW407535, and AW403048.
HUJCM08	6589	957784	1 - 720	15 - 734	AF128893, AF114847, AB016767, AF121948, AF015950, and AF018167.
HUJCT61	6590	933920	1 - 649	15 - 663	
HUJCV04	6591	926175	1 - 373	15 - 387	AW194140, AB002354, and AC003663.
HUJDB08	6592	957786	1 - 823	15 - 837	AA804187, AA570372, N27615, AI818362, AW002330, AA827490, AA714073, AL042777, H80989, AA360910, AA780766, AI924127, AA775929, AI065038, AA077667, AA659832, AW193337, AA758275, H52638, AA376358, AA788592, AA814878, T48241, F11718, AW149288, AA229422, AA825185, AW089016, F35902, AW302670, AA630122, AA077619, AA084880, AA086042, AI697425, AI915081, AA654874, AL119382, AI283924, AI879908, H90878, T06485, AI874341, AL119444, AA584594, AI368732, AA091529, F23294, Z98474, C14330, AI718462, AA721523, AA856851, H73550, AI366555, AA229988, AI266028, AA626411, AI683116, AA904211, R74433, AA434078, AL041681, AL041682, T05118, AL038759, AI160786, AA706202, R93919, AA668715, W24312, F24745, AI758799, AA504951,

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HUJD158	6593	920851	1 - 612	15 - 626	
HUUAJ10	6594	914330	1 - 777	15 - 791	W92719, and W92718.
HUUAJ82	6595	966685	1 - 637	15 - 651	Z55173, and Z55172.
HUUAJ12	6596	968953	1 - 643	15 - 657	
HUUAJ06	6597	966816	1 - 599	15 - 613	AI143114, AI741038, AW408346, AI199199, AI553781, AI159848, AI870663, AW009857, AI369858, AA306925, AI116026, AI168007, AI560107, AA580263, AA565402, AA565504, AI056118, T78900, AW016397, AI358502, AA565503, AI989730, AI102803, AI094220,

					AA772713, AA147209, AA809418, AA235853, AA812366, AI520722, AI273152, AI031924, AI197902, AA854522, AA541445, AA813910, AA160408, F32212, AW381946, AA808361, AI025417, AA214593, AA312286, AA807833, AI886250, AA760697, AA306027, Z93241, AF151854, and AL022316.
HUUA83	6598	921559	1 - 358	15 - 372	
HUUCI06	6599	933322	1 - 447	15 - 461	AL046885, AA705908, AI812019, AI657105, AI167247, AI432943, R11664, and AL031320.
HUUCI07	6600	951824	1 - 349	15 - 363	
HUUCO12	6601	969258	1 - 91	15 - 105	
HUUCP08	6602	957715	1 - 497	15 - 511	AI355246, AI679759, AI923052, AA904211, AA613624, N95817, AI079901, AA468975, AC005726, AC005799, AL021937, AL034549, AC007151, AC005519, AP000493, AC005911, AC005520, AC007066, AL049780, AF088219, AC005666, AC005081, AL121652, AF130342, Z93017, AC006017, AC005228, AC004699, AL022069, AC007052, AC004106, AC007226, AC007283, AP000513, AC007055, AC006211, AL139054, AC005755, AC006430, AC005829, AC005697, AC005722, AC004890, AL110502, AC004694, AL133371, AC005358, AC009464, AL135747, AC005158, L11910, AC004686, AL008629, AL008710, AF130343, AL132987, Z98751, AC007934, AL049709, AC009498, AC006285, AC005670, X87344, AC007993, AL022574, AC006312, AC007899, AC003087, AC007565, AL121655, AC005859, AL049589, AC004477, AC004526, AC007676, AC004675, AC002369, M89651, AC005875, AC005229, AL109984, Z81365, AC005071, AC007528, AL031230, AC006271, AL031685, AL035090, AC005089, AC005531, AC006480, AC003042, AL008723, AP000688, AC005189, AL008729, AL080248, AL035422, AC004079, AC000353, AL049713, AL031311, AL031575, AC007216, AC003664, AC006065, AC006960, AC005899, AL031312, U82828, AL022396, AC004098, AC005234, AC006011, AC007637, AC004797, AC002527, Z95125, AF205588, AC003075, AC004888, AC005730, AL022326, AL031775, AC004033, AC005599, AC005067, AL121595, AL031680, AC004531, AL133245, AC004024, AL031316, AC007842, and Z98946.
HUUCQ03	6603	915269	1 - 907	15 - 921	AC000119.
HUUCS49	6604	965987	1 - 504	15 - 518	AL046287, D78805, D78848, R11003, AL044772, T79263, and Z82171.
HUUDG08	6605	957721	1 - 391	15 - 405	
HUUDJ10	6606	961717	1 - 623	15 - 637	
HUUDS10	6607	961706	1 - 325	15 - 339	AA457765, AI349129, AA824626, H24051, H73550, AA720833, AA378718, AW088835, AA045600, AI050070, AA339092, AI399992, AC005237, AC011331, AC005102, AL031587, U52112, L44140, AC009288, AC005527, AP000552, AC007993, AC004963, AL049758, AJ006345, AC005529, AC004967, AC000377, AL033525, Z85986, AL022314, AC003684, AC003101, AL034429, Z92844, AC002352, AC004893, AC005104, U91321, Z97635, AC006040, AC004686, AL008718, AC002991, AC004851, AP000313, AP000050, Z95118, AP000117, AC002492, and AF038458.
HWAAE23	6608	675326	1 - 750	15 - 764	AA610659, T94692, AC006388, AF111168, AL009174, and AC003663.

HWAAE55	6609	719194	1 - 349	15 - 363	
HWAAE90	6610	778917	1 - 407	15 - 421	
HWAAF27	6611	721151	1 - 432	15 - 446	AC002126.
HWAAF66	6612	908541	1 - 389	15 - 403	AA884296.
HWAAF81	6613	712203	1 - 336	15 - 350	AA652914, and AA807140.
HWAAAL31	6614	697716	1 - 537	15 - 551	Z85996.
HWAAAM04	6615	614973	1 - 394	15 - 408	R84880, AI032875, T27238, AW162263, T49209, AW388701, AW388609, AA918754, AI445934, AI733754, AA807287, AI285709, AI792664, AW004638, AI095123, AA09624, AI393841, AC005412, AF050154, AC002365, AI249921, AC005015, AC002045, AL049759, U91321, AP000285, AP000286, AC004262, AP000109, AP000041, AP000692, AC003049, AC002300, AC004084, AP000111, AP000043, AC004895, AP000212, AP000134, AL035209, AC004912, AP000295, AC005011, AC008126, AC002039, AP000031, AC006274, AP000252, AP000152, AP000010, AC004893, AC000097, AC007663, AC006549, AC006547, Z92547, AL080243, AL035562, AC012599, AL020993, AP000555, and AC006541.
HWAAAM23	6616	675712	1 - 546	15 - 560	AA569796, AA190348, AW408725, T64954, AW407501, AW390099, AB011126, and AL049935.
HWAAAR36	6617	915621	1 - 479	15 - 493	AC007032.
HWAAAW7 4	6618	935602	1 - 567	15 - 581	AW402458, AW193493, AW192330, AA457685, R92629, AA350186, AW270258, AA580116, AA53448, AI124798, AI920972, AI678392, AC002115, AL049780, D84394, AC003695, AC005856, AC006530, AP000509, AL133246, AL035587, AC004185, AC002544, AP000690, AC004386, AC002418, AC005730, AL049869, AC004983, AP000689, AL035455, AC004019, AL031120, AC005914, AC005666, AC005972, AC003664, Z83840, AC007510, AL031230, AC007388, AE000660, AL031589, AP000512, Z84485, AP000555, AL024509, AC005261, AC006160, AC003983, AF196970, AC007676, AC003037, AC005037, AL031650, AC005520, AC006285, AL096712, AC005224, AC008115, AL009181, AC003077, D86992, AL049777, AL079303, AC005921, AP000694, D88270, AC007216, AC004033, AC006057, AC004531, D87675, AC006468, AC006017, AC005476, Z98051, AL023879, AC004526, AL022320, L78833, AC004893, AC002350, AC007055, AC004659, AC005500, AC007687, AL020997, AL022476, Y10196, AC008498, AC007298, AC005061, AC005004, AL031132, AL034406, AL021578, AC004813, AC004106, AC007546, AC002310, AC003071, AC006251, AC007563, AC004831, Z83846, AC006449, AC005015, AC007543, U66083, U63721, Z82246, AP000126, AP000204, AC004584, AP000089, AC005768, AC007226, AC005215, AL117337, AC004491, and AC007536.
HWAAAY03	6619	923734	1 - 402	15 - 416	
HWABA49	6620	859878	1 - 369	15 - 383	AW407837.
HWABB37	6621	870088	1 - 368	15 - 382	AA985132, AW407779, and AW068669.
HWABE67	6622	751418	1 - 219	15 - 233	AL117351.

HWABE94	6623	838096	1 - 528	15 - 542	AA693936, AI758902, AI347305, AI707616, AW235273, AA505993, AA007507, AI198564, AW408843, W89117, AI817959, AI014474, N78660, AI819949, AI818952, AI818934, AA827181, AA807696, AI478470, W28310, AI620079, W28761, AA504463, AA504537, C00613, AA630618, AA621088, AA034986, AA033755, AA609139, AW408062, R56755, AI342134, AI368615, D31434, AA252777, AA976522, AA779863, AA868560, W15149, AW385052, F11972, R33966, AI955209, T63060, T65487, T58123, AA443135, AW170522, AL039390, AL046681, AL042009, AL046137, AL047188, AI446483, AI049726, AA598862, AI890907, AI249936, AI672187, AL045503, AL042551, AL042503, AW337394, AB029003, and AC002400.
HWABF91	6624	698131	1 - 437	15 - 451	AI805973.
HWABI18	6625	529803	1 - 521	15 - 535	
HWABQ57	6626	734536	1 - 317	15 - 331	AL134038, AA610414, AA091193, AC005593, Z95152, AC006112, AL121757, and AC003987.
HWABS04	6627	494837	1 - 370	15 - 384	
HWABS51	6628	719221	1 - 423	15 - 437	AA340284.
HWABT82	6629	784211	1 - 105	15 - 119	AA468312.
HWABW02	6630	919441	1 - 327	15 - 341	
HWABW15	6631	659944	1 - 817	15 - 831	
HWABW34	6632	703861	1 - 333	15 - 347	AL078584, and Z78726.
HWABW78	6633	865145	1 - 338	15 - 352	AI417830, AI123348, AI123698, AI470030, N53143, AW342077, AI955224, H17323, AW000844, AA534687, AW294198, H17823, T15834, R69639, AI248017, R42888, AA553685, T26637, R69560, R36850, T34756, R39028, AI991788, T99687, and AF131762.
HWABX49	6634	685187	1 - 333	15 - 347	AA243866, AW001383, R36135, AL078593, AB014580, and AC002526.
HWABX68	6635	752825	1 - 373	15 - 387	
HWABY12	6636	968857	1 - 565	15 - 579	AC006991.
HWACA38	6637	943074	1 - 1037	15 - 1051	AW407984, AW408019, AA251937, H14675, and AL035530.
HWACB75	6638	685247	1 - 448	15 - 462	
HWACG21	6639	868530	1 - 324	15 - 338	AI888883, AA828227, AW303196, AA666332, AI732547, AW301350, AA468131, AL031289, AL121825, AC004889, AL031003, AC005138, AL049569, AC002527, AC002456, Z98946, Z83846, AL133244, AL035410, and AL109967.
HWACG64	6640	675517	1 - 460	15 - 474	T18924, and AF075587.
HWACG68	6641	752710	1 - 470	15 - 484	AA491189.
HWACG94	6642	670912	1 - 309	15 - 323	
HWACH33	6643	686740	1 - 389	15 - 403	
HWACH49	6644	722572	1 - 438	15 - 452	AC008039.
HWACK78	6645	753565	1 - 468	15 - 482	
HWACM17	6646	662307	1 - 390	15 - 404	AW183544.
HWACP03	6647	869938	1 - 659	15 - 673	

HWACQ19	6648	668093	1 - 514	15 - 528	AI418472.
HWACR28	6649	685983	1 - 390	15 - 404	
HWACR77	6650	771777	1 - 105	15 - 119	AC005058.
HWACU96	6651	787349	1 - 247	15 - 261	
HWACV04	6652	927275	1 - 466	15 - 480	
HWACX82	6653	705560	1 - 408	15 - 422	
HWADA93	6654	647703	1 - 919	15 - 933	R56516, R13563, H69607, Z42062, and Z97989.
HWADE38	6655	709487	1 - 433	15 - 447	
HWADF26	6656	957347	1 - 1087	15 - 1101	AA424848, T60164, AA426628, AA173389, and AC007068.
HWADG01	6657	915567	1 - 412	15 - 426	AW022544.
HWADG26	6658	680182	1 - 410	15 - 424	
HWADG27	6659	958200	1 - 673	15 - 687	AW340327.
HWADI32	6660	698651	1 - 356	15 - 370	AC004223.
HWADI53	6661	727820	1 - 737	15 - 751	AI022632, AI022651, T91891, T84838, H47614, H47703, and N57905.
HWADI29	6662	690074	1 - 397	15 - 411	
HWADL02	6663	918986	1 - 302	15 - 316	AA380962.
HWADL36	6664	706697	1 - 868	15 - 882	
HWADM30	6665	868520	1 - 343	15 - 357	
HWADN19	6666	657528	1 - 374	15 - 388	
HWADN21	6667	670274	1 - 440	15 - 454	
HWADN46	6668	924888	1 - 711	15 - 725	T32685, R25015, T30407, AW401787, F07299, and Z44281.
HWADO54	6669	729136	1 - 562	15 - 576	
HWADP26	6670	680211	1 - 621	15 - 635	
HWADQ27	6671	682448	1 - 570	15 - 584	
HWADQ91	6672	693834	1 - 346	15 - 360	
HWADR47	6673	944042	1 - 320	15 - 334	DI9587, AW022757, AW021357, H08415, AA099186, R51350, AA058389, H07129, T30155, AI810672, AI700760, AA291583, Z38445, AI936412, AI913143, AA449107, AW383953, AI952893, AW025467, AI653296, AI823647, AI978760, AI890309, H13605, AW080154, and AB018298.
HWADS43	6674	675454	1 - 367	15 - 381	AW292252, and AC002107.
HWADS53	6675	717544	1 - 339	15 - 353	AW341101.
HWADV51	6676	916669	1 - 450	15 - 464	
HWADV82	6677	708688	1 - 403	15 - 417	
HWADW4 1	6678	722343	1 - 322	15 - 336	H26533, T77241, and AI206163.
HWADX46	6679	718647	1 - 556	15 - 570	AC000353, Z93341, AL135960, AI131016, Z82176, and AC004263.

HWADX62	6680	868509	1 - 497	15 - 511	R14731, AA425283, AA703818, AA180056, AI204310, AI338884, AA669238, AA601084, AI355572, AL133861, AI653695, AA610644, AI754064, T07251, AL138119, AI446424, AI299352, AI086603, AI589378, T05002, R22196, AI823395, AI057560, AA342040, AC008039, AC005184, AC003685, AC007308, AC000007, AC005808, AC007911, AL139054, AB001523, AP000127, AP000205, AP000245, AC006132, AC005067, AP000692, AC005326, AF124730, AF015416, AC004263, AL031680, AC006137, AL022165, AC007458, AC002366, AC004605, AL034395, AC010205, Z94865, AF124731, AL022158, AL049795, AL035413, AC004622, AC008044, AF030453, AC007372, AC005088, AL121757, AL049837, AC006581, AC006511, AC005594, AL049570, U80460, AC002528, AC005949, AC005730, AC005082, AC006121, AF111167, AC007688, AC003064, AP000532, AC002471, AC005374, AC005300, AC002422, AC004000, AC000115, AL117354, AL079342, AP000361, AP000151, AC005049, AP000009, AC006479, AC002060, AC009248, AC005358, AL035684, AC006557, AC002477, AC005295, AC005535, AC005225, AC008928, AL022313, AC004655, U52852, AC008038, U80459, AP000302, Z15025, M63543, U93163, AL008719, M63544, Z97630, AL008734, AF038458, AL008582, AC004242, AC004878, AC004797, Z97632, AL049636, AL031655, AL133241, AL022721, AC008126, AE000661, AL122021, AL033527, AP000555, AC004650, AC006369, Z84497, AC003072, AL035695, AL031311, AC004993, AC006120, AC004084, AC007227, AC016025, AL109865, AL109963, AC004897, AP000466, AC006285, U91318, AP000556, AP000514, L78833, AC010436, Z93241, Z97054, AC003687, AC005519, AL031427, AC004125, and AP001055.
HWADY59	6681	738874	1 - 602	15 - 616	AI821020, T60655, and AC005856.
HWADZ21	6682	670270	1 - 368	15 - 382	AL008725.
HWADZ84	6683	782682	1 - 308	15 - 322	
HWAEA55	6684	731094	1 - 311	15 - 325	
HWAEA60	6685	964384	1 - 390	15 - 404	AA603319, T99553, T82934, AW138561, AI393407, AA884256, AW269941, AA825272, D60479, and AI762108.
HWAEB19	6686	750811	1 - 407	15 - 421	
HWAEB94	6687	778009	1 - 203	15 - 217	AC005280.
HWAE75	6688	852921	1 - 1336	15 - 1350	AA259167, AW275379, AA417330, AA417318, AW451308, AA259128, AI286274, T74279, F12417, F10034, T89018, AA021236, AI907832, AA565356, T23907, and AC006011.
HWAE01	6689	915064	1 - 326	15 - 340	
HWAEK82	6690	868489	1 - 451	15 - 465	AW392670, U46349, AL119483, AL119418, AL119355, AL119319, AL119457, U46341, AL119324, AW372827, AW384394, AL119497, U46346, AW363220, Z99396, AL119484, AL119363, AL119391, U46350, U46347, U46351, AL119443, AL119444, AL119341, AL134538, AL119439, AL119522, AL119396, AL134902, AL119335, AL042975, AL134920, AL037205, AL134527, AL134536, AL119399, AL043029, AL119496, AI142134, AL134531, AL134533, U46345, AL043011, AL042984, AL042614, AL042433, AL134526, AL042544, AL043033,

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HWAEN20	6691	868490	1 - 459	15 - 473	R10255, and AC005940.
HWAFD32	6692	850048	1 - 483	15 - 497	
HWAFG08	6693	958173	1 - 448	15 - 462	AA669840, AA533725, AA604897, AA714453, AI471543, AA670468, AA493708, AI262909, AA491814, AI281881, AA682912, AI357288, AW080134, AA908422, AA346458, AA810370, AI284640, AI138265, AI298710, AA678436, AA931647, AA502866, AI246119, AA521323, AA493206, AA623002, AI061334, AI344844, AI860020, AI801600, AA503600, AA688036, AA513972, T56472, AI801591, AA491284, AW301350, AI350211, AW303196, AI610159, AA525824, AA678443, AW274349, AI345518, AA771811, AA521399, AA630030, AA593247, AA485291, AA806796, AI343137, AA469451, AA649542, AA649484, T07451, AI686809, AA649722, AA553465, W79504, AI708009, AA621704, AW269488, AA653618, N25296, AA350859, AW084252, AA669251, AA507824, AA973803, AA599920, AW084961, AW193432, AW419262, AW072923, AW193265, AA664015, AA568778, AI537955, AI688846, AI887483, AW438643, AA584167, AI471481, AA729721, F18320, AW303876, F36273, AA480772, T05101, AA554319, AI345654, R98967, AI282832, AI281697, AI245679, AA551503, AW151727, AA610491, AA749068, AI119691, AW406659, H77643, AW088202, F18638, AA828042, H81785, AA526342, AA744031, AA252763, AA158956, AI499938, F16274, AI674873, AI929531, AW029038, AI339850, AW440836, AI053672, AI046205, AA719805, AA644207, T06556, AW088058, F18974, AA719080, AI270117, AA368936, AI446464, AA364429, AA244357, AA649642, AI251002, AA643962, N63352, AA507776, AA338486, AA831375, AW102955, AI619997, AW327868, AA371533, AI243584, AA523838, N55273, AA309841, AW339568, AI160117, AA873532, AA252263, AI251436, AW023672, AI287651, AI002834, AI471464, AL046457, AA468131, AW261871, AA664407, AA613232, AA634145, AW265385, AA492166, AI962050, AA598586, AA984708, AA862173, AA487858, AI653905, AI469003, AI580652, AA602528, AW302013, AA837084, F03525, F23250, AA649705, AA722048, AA634146, AI696962, AA825357, AI434706, AI890923, AA708352, AI355206, AA569468, AA810318, AI697208, AI367497, AL046409, AA133406, R97780, AI445582, AA493471, AI471487, T06828, AF150152, AI133333, AW103981, AA194761, T53128, AI003751, H71429, AI307608, C06303, AA233519, AI254316, AA586562, AA515128, AA570227, AA579736, F10924, AA501722, AA837677, AI044940, AA280632, AI379719, AI888008, AA577906, AA635442, AA437161, F01314, AL038705, AW238278, AA528516, AA426277, AA829223, AA365694, AA970213, AI002820, AI249997, AA654761, AA578481, AA558015, AA340747, AA713891, AA532524, AW276435, AI033547, AC006449, AC002369, Z98257, AC006130, AL121652, AL031729, AL021918, AF176815, AC005690, AF196779, AL031123, AL031005, AC006511, AC005911, AC005011, AL022476, AL049712, AC004957, AC005072, AP000047, AC005484, AC006040, AC004067, AC006211, AC004812, AC006430, AC007227, AC004858,

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HWAFR09	6694	973926	1 - 377	15 - 391	N34609, H08455, W22751, AC007566, and AL137349.
HWAFR03	6695	922832	1 - 399	15 - 413	
HWAFW34	6696	926801	1 - 278	15 - 292	
HWAFW39	6697	947915	1 - 518	15 - 532	T27535, AF106037, AF222340, AB011097, and AF183569.
HWAFX39	6698	907631	1 - 357	15 - 371	
HWAFY24	6699	868427	1 - 347	15 - 361	
HWAFZ13	6700	873396	1 - 501	15 - 515	AW161021, A1870319, W46922, AB035173, and AB035174.
HWAFZ82	6701	868426	1 - 525	15 - 539	AC005534.
HWAGC76	6702	941311	1 - 596	15 - 610	A1337376, W86648, N46466, AA522544, A1341807, A1651516, W86523, A1279721, A1245138,

HWAGD11	6703	965895	1 - 610	15 - 624	and AI262580.
HWAGD58	6704	869383	1 - 839	15 - 853	AW403858.
HWAGE40	6705	926279	1 - 291	15 - 305	AA976889.
HWAGG79	6706	930876	1 - 274	15 - 288	N32456, and AL008730.
HWAGI49	6707	838759	1 - 574	15 - 588	AW027612, AI768868, AI337456, and AF015416.
HWAGK95	6708	868403	1 - 983	15 - 997	Z95152.
HWAGL53	6709	842011	1 - 639	15 - 653	AI668608, AI820783, and H25907.
HWAGM33	6710	888685	1 - 1127	15 - 1141	AW027021, W60174, AW385598, AW070853, H11581, H23044, AW028265, R55140, AA018982, R55003, AA330790, N80215, and AC004408.
HWAGX37	6711	959586	1 - 648	15 - 662	AA496792.
HWAGY05	6712	931001	1 - 679	15 - 693	
HWAGZ22	6713	868523	1 - 554	15 - 568	AA381062, and AP000497.
HWAH110	6714	960646	1 - 1811	15 - 1825	AI337112, AW157251, AI359543, AW025067, AA033852, AI923582, AW173477, AI469426, AI337164, AI248222, AI914411, AI218210, AW163254, AW264530, AA058937, AA846393, AI217342, AA307853, AA865741, AA937115, AA007277, AA482294, W76232, AI284228, AA007278, AI654340, AW242373, AA861264, AI494032, AI362710, AW029549, AA741378, AI807032, AI589216, AI302432, W72995, AI683775, AA813389, AW083309, AI280797, AA782972, AW002572, AA446320, AI919243, W70165, AA461498, AA354364, AA460572, AI216403, T32711, AI566648, AA482207, W70107, R41710, AA100835, AA314521, AA355060, Z40294, C03019, C04495, AA354171, AW237755, AA361131, AA337563, AA897525, AI040822, R18164, AA897166, AW387825, AW387760, AW387866, AW387873, C01307, AW387848, AA832384, AW381883, AW381787, AA330348, AF113538, and AL137375.
HWAS94	6715	909667	1 - 533	15 - 547	AA004442.
HWAE02	6716	918215	1 - 595	15 - 609	
HWBAB43	6717	715110	1 - 410	15 - 424	
HWBAB69	6718	582109	1 - 375	15 - 389	AI333255, AA453914, T83122, AA227768, AA534795, AW129554, AW129687, AI378305, AI191481, AF042810, AF042799, and AF042800.
HWBAC22	6719	823086	1 - 1044	15 - 1058	AA916171, AC003049, AC004917, and AC005785.
HWBAL44	6720	959449	1 - 553	15 - 567	AI018289, AA909162, AI472103, AW410437, AA303718, AA102327, N28787, AA059290, AW410431, AA054210, H86396, H86516, AA019783, AI684587, R28900, AL117550, AF113127, AF151877, and AF161526.
HWBAN54	6721	729329	1 - 380	15 - 394	
HWBAQ16	6722	868363	1 - 1070	15 - 1084	AI028018, T18971, and Y15381.
HWBAR44	6723	715963	1 - 397	15 - 411	AI140130, and AA719976.
HWBAR90	6724	788700	1 - 631	15 - 645	

HWBAS92	6725	960197	1 - 723	15 - 737	AW131438, and AA176971.
HWBAX06	6726	935032	1 - 103	15 - 117	
HWBAX39	6727	630220	1 - 453	15 - 467	AC005037.
HWBAZ51	6728	707033	1 - 401	15 - 415	
HWBBA64	6729	927809	1 - 448	15 - 462	
HWBBA83	6730	775401	1 - 557	15 - 571	AW178515, AW178491, AW178488, AW178658, AW178490, AW178544, AW178489, AW178541, and AW178487.
HWBBB48	6731	559708	1 - 236	15 - 250	
HWBBE01	6732	851029	1 - 385	15 - 399	AL020996.
HWBBF31	6733	868359	1 - 300	15 - 314	AF110908.
HWBBI20	6734	669491	1 - 365	15 - 379	
HWBBI54	6735	971547	1 - 471	15 - 485	
HWBBL78	6736	723183	1 - 661	15 - 675	AW070392, T86121, AI919539, U54727, and T91169.
HWBBM28	6737	686259	1 - 410	15 - 424	AW378979.
HWBBO46	6738	718858	1 - 640	15 - 654	R09834, and AF067844.
HWBBQ40	6739	660971	1 - 313	15 - 327	
HWBBQ86	6740	656704	1 - 446	15 - 460	AA744115, and AA744222.
HWBBR65	6741	747723	1 - 356	15 - 370	H57595, AC010205, and AC005409.
HWBBR78	6742	663728	1 - 342	15 - 356	AC004098.
HWBBV03	6743	868346	1 - 417	15 - 431	F34850.
HWBBV59	6744	682344	1 - 334	15 - 348	
HWBBV83	6745	771349	1 - 454	15 - 468	AA906879, AW207599, and AI240477.
HWBBW11	6746	966665	1 - 569	15 - 583	D20490, AA604681, AL049557, AL137199, and AL137198.
HWBBX08	6747	860880	1 - 642	15 - 656	
HWBBY01	6748	916036	1 - 906	15 - 920	AW339320, AI697885, AI150606, AA213437, AA243510, L44367, AW339015, and AC007298.
HWBBY74	6749	711633	1 - 715	15 - 729	AC007685, and AC007284.
HWBCA14	6750	768667	1 - 355	15 - 369	
HWBCA22	6751	674236	1 - 458	15 - 472	
HWBCA92	6752	712731	1 - 538	15 - 552	
HWBCC85	6753	784189	1 - 304	15 - 318	AL119762, H07953, F08248, AI307608, AI754336, T74524, AI696962, CI5363, AI369580, AI821714, AI792133, AI791913, AA528559, AI037683, AA283730, AI669589, AA715814, AL135357, AA838190, AI431303, AI076228, AI580250, H65400, AI821785, AI793172, AI793209, AW264934, F12561, AW020992, AI696955, AW302705, AA579205, AI254316, AI609972, AW302659, AI061313, AA602906, AA829036, AW419262, AW020599, AA629992, AA507824, AI887235, AA297666, AA722372, AI244127, AA663201, AL135696, AI733856, AI038893, AA857486, AL138396, AA502991, AI079645, AA613227, AA574442, AA484267,

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HWBCC90	6754	744828	1 - 368	15 - 382	
HWBCF85	6755	738552	1 - 305	15 - 319	AC002302.
HWBCG35	6756	707803	1 - 286	15 - 300	N28654, AA339066, and AA361150.
HWBCG45	6757	527679	1 - 333	15 - 347	AF123320.
HWBCI65	6758	868326	1 - 322	15 - 336	AI791659, AI133861, AW275432, AI537356, H66812, AA515165, AI198211, F00112, T07569, AW438806, AI350189, AW302048, AI369977, AP000153, AP000111, AF001549, AC004448, AC006026, AC005519, AC005057, AC006080, AC005399, AC004796, AL031295, L78810, AC004841, AC004765, AC004019, AC005412, AL080243, AF128525, AC002477, AL049795, U07563, AL096763, AL049757, AC007707, AC004973, AC006468, AC006571, AL080250, AC004817, AC004985, AC005670, AL031003, AC007686, AC005839, M63796, AF134726, AL024507, AC006515, L78833, AC005971, AC005666, AJ246003, AC006512, AP000555, M89651, Z83844, AC003010, AC005231, AC006277, AC005922, AC005837, AC006285, AL121658, AC007934, AC003689, M81890, AL023584, AP000030, AF165926, AB014079, AL031281, Z92545, AC004975, AC004881, AC005730, AL079340, AC006044, AL035587, AC002463, AL034423, AC006344, AL109628, AL022163, AC008044, AC005480, AL031589, Z98044, U91318, AL031662, AL096791, AC006121, AC006511, Z93018, AC009263, AC007536, AP000337, AC005907, AL050307, AC005913, AC002306, AC005072, AC007993, AL031680, Z94056, Z99716, AL021808, AL035460, AF205588, AC005755, Y14768, AC005529, Z83840, AC002527, AC004929, AC002420, AC005753, AC004150, AP000704, Z95331, AC003037, AP000505, AC004686, AC005828, AL031846, and AC005800.
HWBCN09	6759	868325	1 - 809	15 - 823	AC007032.
HWBCN55	6760	715064	1 - 548	15 - 562	
HWBCQ10	6761	964233	1 - 802	15 - 816	AA508891, AA364869, AI537814, AI039257, AI823679, AA774098, AI798242, AI065031, AI064786, AP000153, AP000011, AC002301, AC004882, AC006126, AC005015, AC002350, AC003982, Z83840, AC005529, AC007136, AC003101, AC007283, AC004967, AC004883, AP000692, AI096701, AL031685, AC006930, AC006146, AC004185, AL049569, AC005280, AP000501, AC006312, AL035587, AP000247, AC005726, AC005484, AF001548, AC006487, AC005156, AC005231, Z84469, AC005844, AL121653, AC002073, AC004552, AC004895, AC004983, Z93017, AC005562, AF111168, Z98743, AC005520, AC005049, AC007066, AP000509, AP000115, AC000379, AC005183, AC005004, AL033527, AC003104, AC004765, AC004890, AC005914, AC004263, AC005081, AC004383, AC007041, AL133163, AL049830, AL121658, AC005808, AC004099, AC004084, AL022476, AP000252, AC002381, AC002312, AC007298, Z99716, AC005527, AC004032, AP000512, AC005089, AC005300, AC005954, AC004985, AD000091, Z98884, AC005006, AL008718, AF003626, AL022330, AC005412, AP000556, AC005921, AC004878, AL049869, AC005531, AC004832, AC005940, AL031283, AC006388, AC005971, AC005837, AL022165, AL008582, AC005182, AP000557, M89651, AC003108, AC003072, AL035072, AC008115, AC006430, AL137191, AC005409, AC004651,

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HWBCQ29	6762	943720	1 - 669	15 - 683	AL022098.
HWBCS21	6763	960025	1 - 499	15 - 513	
HWBCS66	6764	765986	1 - 799	15 - 813	
HWBCU82	6765	955858	1 - 368	15 - 382	
HWBCW04	6766	925649	1 - 530	15 - 544	AW192334, AA845292, and AL034397. AA758151, AW303196, AW369785, AI820920, AA478048, AI821670, AA478209, AI874096, AW301350, AA584125, AL135357, AL042853, AA601125, AW022897, AA100718, AI819140, AA601202, AL038606, AL044340, AI733129, AA719292, AI683131, AI873990, AW022655, AA088327, AA522897, AA972809, AI557808, AI345797, AA376014, AI309375, R51018, AA584733, AI673336, AA577824, AW023662, AW274349, AA631517, AA912287, AW265032, AW419293, AL048135, AA630456, AI311034, AI344176, AI054333, AW384990, AA767637, AI345007, AA652790, AW079761, AI421841, AI254913, AL031985, AC005520, AC003037, AL009172, Z84469, AC010169, Z81365, AC004894, Z99127, AC006479, AF064863, AC002564, AC000353, AP000356, AC004143, AC007011, AC005018, AC018767, Z69838, AL031681, AC004388, AC009028, AC005668, AC004478, AL050321, AC005277, AC006251, AC004972, AC005075, AC007216, U95742, AC005003, AL121578, AC007198, AC003071, AC007314, AC002059, AL031656, U85195, AC006509, AC004088, AE000658, AP000555, AC002982, AC004856, AC003104, AP000035, AL035697, AC004148, Z97053, AL135960, AI131016, AC005288, AC004458, AC004694, AC005994, AL021397, AL022165, AC002565, AC005747, AP000223, AL031291, AL022326, AC005690, AC005245, AC005251, AL022319, AC003658, AC004240, Z84484, AC004408, AF015148, AF020662, AL133445, AL031846, Z93244, AC008038, Z98304, Z98051, Z92910, Z83846, AC004967, AC008041, AP000694, AC004087, AC004112, AC009509, AC005011, AC007263, AL035072, AC005952, AC006077, AC003003, AR036572, U91328, AC007773, AF196779, AL109847, AL031055, AC004675, AC005486, AC008967, AF001549, AL133243, AL031283, AC004147, AC004051, AC007283, AL031281, AC005940, AC002990, AC005104, Z83844, AL121580, AL022336, AC011422, AC007193, AL031654, AC004648, AC007226, AF129756, AC005019, AC002385, AL021878, AL031575, AL078604, AF029308, U78027, AC007292, AI239322, U91323, AC006075, AC007277, AC007686, AL049692, Z82198, AC005411, AP000697, Z84466, AC006333, AL022067, AL031053, AC008372, AC004079, AF090940, and AL035422.

HWBCW88	6767	882592	1 - 1321	15 - 1335	AI990120, AA010663, AA115329, AA142893, AA115240, AW451010, AA143167, AA947167, AA479671, AI807656, AI003817, AA862814, AA884865, AA889038, AA021652, AI338488, AA035167, AA193491, AA193487, AC007376, AF111169, and AB028959.
HWBCW90	6768	731395	1 - 556	15 - 570	AL022150.
HWBCY30	6769	828318	1 - 532	15 - 546	AW274000, AI768670, AI291098, AW044308, AW292871, AI333095, AI763411, AI277756, AI277757, AW295995, AI640134, AI438941, AA833791, AA928138, AA768096, W44749, AI075028, N26246, AA213455, AW004641, AA210688, AA724426, AA973149, HI8543, AA827829, AA743465, H09231, R25082, AI928653, T10351, R33461, AI364687, and Z46059.
HWBDL50	6770	724145	1 - 593	15 - 607	
HWBDM24	6771	963498	1 - 1027	15 - 1041	AA486469, AA410963, AI791905, AA459612, W31955, AW137789, AI739525, AW204945, AW291807, and AI388555.
HWBDP31	6772	697705	1 - 414	15 - 428	
HWBDR66	6773	750586	1 - 510	15 - 524	
HWBDS89	6774	771950	1 - 432	15 - 446	AC004381, and AC005820.
HWBDT15	6775	659939	1 - 217	15 - 231	
HWBDW71	6776	597259	1 - 424	15 - 438	AC009263.
HWBEA72	6777	950702	1 - 261	15 - 275	AW006846.
HWBEI17	6778	924913	1 - 197	15 - 211	
HWBEI53	6779	968493	1 - 106	15 - 120	
HWBEL53	6780	727617	1 - 342	15 - 356	AC004916, AC006328, AI133216, AC004842, AL031259, and AC004908.
HWBEL70	6781	735390	1 - 443	15 - 457	
HWBEL85	6782	954600	1 - 294	15 - 308	
HWBEV44	6783	716215	1 - 536	15 - 550	N28544, and H99861.
HWBEV94	6784	788574	1 - 709	15 - 723	AI391698.
HWBEX27	6785	682583	1 - 475	15 - 489	R98173, AA194819, AW338123, AW152107, AI242261, F05684, AI824448, AF205935, AB011090, and I41142.
HWBEY38	6786	709497	1 - 418	15 - 432	AA772370, H27788, H91330, AA644090, AA676592, AA613257, AA551181, AA463590, AC005914, AC009516, AC007216, Z68756, AC005954, U95742, AC006273, AC004477, AC005736, U91326, AI009610, AC006241, Z84480, Z85986, AC012384, AL022323, AC005899, AC007993, AP001060, AC002115, AI139054, AC005529, AC009247, AC004019, AC007766, AC005081, AC005620, AC004967, AC005015, AC006468, AC005037, AL035587, AC005971, AL022721, AL022318, AC006441, AC002543, AF111167, AC006449, AC005527, AL021918, AC006001, AC005520, AF129756, AB023050, AL022320, AL109628, AL109952, AC004812, AL050318, AC007386, AL133245, AC004125, AL132712, AC002492, AC007226, AD000092, AC004929, AP000557, AC002312, Z93930, AC004491, AC004462, AC004099, AL031295, AC005696, AC003109, AC007298, AL034420, U85195, AC007676, AC004832, AF053356,

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HWBEZ47	6787	719940	1 - 397	15 - 411	
HWBEZ69	6788	664699	1 - 420	15 - 434	
HWBEZ90	6789	923008	1 - 473	15 - 487	AW151761, AA740571, AA741403, AA633197, AA657910, AA225100, AA664248, AA527109, AW392414, AA768179, AW341882, AW019964, AL137946, AW774006, AW238495, H43183, AW068580, AI499954, H65697, AA662629, AA807704, AI671077, AA550959, H94979, AI754721, AA847427, AI871691, T05617, AA847508, AL047480, AI223968, AI791659, AA302682, AW407632, AI860535, AW104163, AA595656, AA553570, AA515172, AI630413, AA329535, AA662431, R99076, AI859906, AI636422, T40550, AA862075, F32248, T02817, T05684, AW132097, AI267356, AW169124, AW020875, AI653783, AA402113, T56181, AA225023, AW069412, AI859744, AI567391, F32213, AA015948, R87135, AA714073, H86579, T46997, AA368329, AL047467, AI453160, AI564294, AI378437, AW079737, AA714110, AA831997, R94909, AA225795, AA323644, AA502110, AI471455, AA484892, F32705, AA632765, AI288033, AI267450, AI283938, AI471467, AI826761, AA487829, AI928890, N79228, AL039309, N71579, AI536834, AI561054, AA810158, AW085790, AA716460, AA586433, AW272740, AI583936, AA599199, AI754170, AW438876, AI356440, AW083934, H16875, AA156147, AI635609, H15241, AI687343, AI201668, AI370302, T03928, AI249688, AI590404, AW008184, AA678950, AI927261, AA653291, AA076418, AA566084, AA640252, AI694178, AA492105, N29936, AA864426, N63891, AI821249, AA187760, H91062, AW007424, AA828045, AA736447, AI355007, AA579281, AW128881, AA837771, AI038304, AA742775, AA748102, AI859438, AI754567, AI569100, AW192599, R34070, AI816136, AI583291, AI754105, AI369076, AI755214, AI354602, AI679390, AI679898, AA297776, AA515924, T94072, AL135639, AA741301, AI080307, AI936182, AL048825, AA568314, AI624379, AA569220, AA557945, N20034, F26713, AA126475, AA507526, AA190484, AA714062, H78898, AI799260, AI709180, AI866996, AI858632, W63553, AI246996, AA018923, AA862029, AA012829, AA988610, T87160, AC002472, AC007664, AC004486, AC007276, Z63710, AC003029, S77605, AC007546, AC002312, AC006318, AC004913, AL021453, AF111168, AC003969, AF161528, AC005066, AC005399, AL021807, AC004799, AC002404, X64467, AC003657, Z98304, AP000703, AC018633, AL031284, AP000702, AC004975, AL031597, AC007510, AC004794, AC002468, AC005157, AC006241, AC004149, AL049872, AL121825,

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HWBEZ94	6790	856472	1 - 342	15 - 356	AA730448, AA631915, AF760850, AI221027, AI312614, AI038029, AA394283, AI889177, W58735, AI148840, AF08565, AL120719, AA494047, AW419227, AA632355, AA618531, N35135, AA513189, AI049630, AA525517, AA125758, AL037699, AA679336, AA670459, AL024474, AC005753, AC007130, AC006261, AL109982, AC006024, AL109758, AC005695, AC007160, AL022158, AC005015, AC002115, AL024507, AC005598, AP000303, AP000114, AP000046, AL050341, AC004929, AC005684, AC004695, AC006449, AL031719, U70878, AF196972, Z95115, AL020997, AC003093, AC002126, AL020995, AC005632, AL132987, AL035462, AC007016, AP000260, AP000099, AC005164, AP000036, AL133289, Z98047, AF001552, AC004703, Z94044, AL031447, AF118808, AC006360, AC004812, Z85986, AC004912, AP000553, AC008123, AC007878, AF152365, AC004526, AP000094, AC004125, AL135744, AC010349, AC007917, AC004414, AC004041, AL049843, AP001171, AC000025,

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HWBFE76	6791	769769	1 - 407	15 - 421		
HWBFG09	6792	625162	1 - 200	15 - 214		
HWBFL35	6793	722921	1 - 346	15 - 360		AI307391, AI866416, AI934536, H84364, AW380728, AA411978, AA411937, R56481, AA128370, AI000242, AW295845, AA373919, AI432666, AI432644, AI623302, AI431307, AI431316, AI431238, AI432650, AI431315, AI432653, AW081103, AI431323, AI432654, AI431321, AL047611, AW058275, AL042729, AI431235, AL134524, AL042655, AW193606, AL043166, AI431246, AL042853, AI590043, AI500714, AW151974, AL042533, AI872315, AI682915, AL042787, AI889208, AL135012, AI866786, AL042508, AL042842, AL042488, AL043089, AL043295, AI537677, AI494201, AI500659, AL042931, AI866465, AI355008, AI289386, AI815232, AI801325, AI500523, AI538850, AI887775, AI582932, AI923989, AI872423, AI284517, AI491710, AI500706, AI445237, AI491776, AW151138, AI889189, AI521560, AI500662, AW172723, AI539800, AI284509, AI538885, AI440263, AI889168, AI866573, AI633493, AI434256, AI866469, AI434242, AI805769, AI888661, AI284513, AI888118, AI859991, AI436429, AI866484, AI355779, AI889147, AI581033, AI371228, AI440252, AL046356, AI860003, AI610557, AL045327, AI242736, AL043321, AI828574, AI887499, AI539781, AI539707, AI559957, AW089557, AI521571, AI884585, AL042515, AI890907, AI445256, AI932620, AL041862, AI866488, AI432677, AI582912, AI623736, AL047675, AL040207, AI804505, AI815239, AI863210, AI866691, AW194509, AI926593, AI289791, AI469775, AI285417, AI927233, AI432656, AI521551, AI285439, AI654286, AI440238, AL042802, AI924051, AI567971, AI539260, AL045891, AI702065, AI885949, AI285419, AI866581, AI866461, AW074057, AI567953, AI815150, AI446495, AI952433, AI889191, AI867068, AI225248, AL043278, AI371251, AI358271, AI866510, AI798359, AI282249, AI698352, AI475298, AI371229, AI539771, AI923046, AI890472, AI371237, AL043091, AL045328, AL042551, AW151136, AL039390, AI671642, AI357664, AW151979, AI582944, AI440260, AI648567, AI500526, AI433157, AI474699, AI866458, AL047422, AI521596, AW192487, AW132015, AL080007, AI888665, AL048951, AW151132, AW193598, AI433160, AI955221, AW197139, AI366900, AI548821, AL042832, AI275175, AI440236, AL122101, Y17793, AI133053, AI133049, AI133076, AI133074, AL049423, U75932, AL133655, U30290, E13998, S36676, AL122049, AC004213, AL133084, AR055519, AL133070, AR034821, AL133051, AL022723, AL133607, AL133015, AL133608, AR015970, AL133020, Y14634, AF002985, U57352, AF126531, and Z69719.
HWBFL96	6794	708955	1 - 392	15 - 406		
HWBFLM58	6795	735701	1 - 367	15 - 381		AA830979.
HWBFLM78	6796	773289	1 - 544	15 - 558		

HWBFB30	6797	691611	1 - 262	15 - 276	AL031733.
HWBFB69	6798	754729	1 - 491	15 - 505	AL049636.
HWBFB88	6799	701904	1 - 134	15 - 148	
HWBGB08	6800	958611	1 - 194	15 - 208	AA747998, AI815031, N67227, C01451, AI223999, AA831672, AW297416, AI371399, AA994323, AW439548, AW235171, AA063573, AW339548, AI635436, AI823872, R33402, AI536057, AA825399, AF130247, and AF165138.
HWBGB47	6801	948714	1 - 290	15 - 304	
HWBGD16	6802	924830	1 - 600	15 - 614	AA287163, N47440, AA002012, AA431617, AA259159, AA091603, N33783, R60031, AL134088, AL134530, AL134519, AL119439, AL119484, and AL043147.
HWBGF15	6803	659687	1 - 236	15 - 250	
HWBG101	6804	915603	1 - 324	15 - 338	
HWBG113	6805	656308	1 - 366	15 - 380	
HWBG130	6806	691511	1 - 298	15 - 312	AA715873.
HWWAZ06	6807	933736	1 - 394	15 - 408	
HWWD103	6808	922463	1 - 554	15 - 568	AI208828, and AI949453.
HWWEF06	6809	933697	1 - 605	15 - 619	AI564440, AI792916, AI952802, AI380089, H05684, AW130075, AA745681, AA256184, AC006129, AC007065, and Z97054.
HWWEN10	6810	961741	1 - 618	15 - 632	AA618155, AI924667, AI345256, AA804838, AA829199, AW022796, AI871940, AA578245, T03613, AA558134, AI149177, H94598, AI049999, AA364147, H86399, AA648605, AW028376, AI281622, AI254267, AI753969, R79396, T16147, AI282322, AA657808, AA984891, AI358505, AW268090, AA947352, AI640905, AI828721, AA196287, AA569206, AI744890, AA084148, AI434103, AI884404, AA449825, W27084, AA643768, W02419, AA367920, AW023390, AA825954, F16848, AI361401, C14724, AA489897, AW085626, W45215, AI002863, AI337612, R83710, AA608675, H83955, AC007793, AC003973, AF001549, AC005516, AC005231, AC009247, AC002544, AC002416, AI132987, AC002449, AI022320, U91326, AP0000952, AC007981, AC004663, AC004812, AP000550, AC008018, AC005412, AC005288, U80459, AC016025, AC016026, AC007546, AC020663, AL049697, AC007066, AC005666, AP000356, AL031662, AC008132, AC008372, AC007845, AL080243, AC007263, AL049776, AC022517, AC004841, AC000134, AC006020, AC005257, AI022326, AF165926, AL132641, AC010849, AL021546, AF207550, AC005899, AC007565, AC005484, AC012627, Z83844, AL035400, AF124523, AP000221, AF111169, Z97184, AC005180, AC000353, AC005914, AC002091, AC004895, AL109963, AL031680, AC012330, AL023879, AI022322, AC005067, AC007051, AC009516, AL109827, AC003002, Z73359, AC004055, AC004771, M57678, Z82190, AC007052, AC005740, AC007919, AC005488, AC002077, AC001231, AC004263, AI246003, AF205588, AC005225, U80017, Z83856, AL117337, AC005574, AF196971, AC005520, AL031733, AC006023, AL031281, AL050341, AC004797, Y18000, AL109627, AL133245, AL031432,

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HWWEPS6	6811	951811	1 - 551	15 - 565	AI439704, AI377300, AA910231, AW297398, AA907716, AA287041, AL048499, AI934011, N95189, AW151979, AL037043, AI141406, AI336494, AI683157, AW081689, AI357672, AL045986, AL137476, AL080147, AF061981, AF007142, A21103, AL137478, AL133084, AR038854, AR055519, and AF054988.
HWWFAl2	6812	968958	1 - 451	15 - 465	AW392670, AW363220, AW384394, AW372827, Z99396, AL119341, AL119396, AL119497, AL119443, AL119457, AL119324, AL119522, AL134902, AL134528, U46347, AL119483, AL134533, AL134527, AL119399, AL119335, AL119418, A81671, AR060234, AR066494, and AR069079.
HWWF07	6813	951819	1 - 490	15 - 504	AC022517.
HWWF042	6814	961739	1 - 325	15 - 339	AA936399, AI379676, AL119511, AL119457, AI783569, AA693331, AI800370, AL079794, AA128660, AI241678, AI468959, AI251221, AL043152, AI254715, AI491904, AI571699, AW090131, AI440238, AI868204, AW058233, AW080402, AW409821, AI524654, AI436429, AI582551, AI540676, AI690411, AI472767, AW149219, AI564716, AA427700, AL042382, AI557104, AI758437, AA769102, AA614517, AI690813, AI421662, N95566, AI244105, AI630927, AI814896, AL043168, AL046261, W46513, AW090387, AW081661, AI345688, AA421957, AL119399, AL040169, AI921132, AI564448, AI537274, AI687568, AA243996, AL038445, AL120706, AL118781, AI887775, AW167918, AI288328, AW162194, AW242197, AI636811, AI952433, AW236186, AW083572, AA190341, AA665669, AA743385, R41605, AW074199, AI573026, AI219380, AA464646, AI285514, AI584130, AI811811, AI538850, AI583567, AW079336, AL120736, AW168296, AL045903, AI680498, AI348777, AI335426, AI686749, AW176256, AW083111, AA830609, AI866465, AA831987, AI520897, AI042544, AI345013, AI499573, AI697359, AI273856, AW130129, AI921167, AA743354, AI440263, AW079432, AL043355, AW169213, AI525669, AA437338, AI280655, AW026905, AW410090, AI380723, AL119324, AI635079, AI473208, AI660903, AI925685, AW024185, AL120987, AI280756, AI299677, AI370322, AI440444, AW081383, R36363, AI868180, AI633061,

AI307736, AI334893, H41759, AI349186, AI810589, AI348969, AI572889, N71180, AI537967, AI800179, Z99428, AW028416, AI698401, AI336495, AA587590, AI336654, AI537643, AI340644, AI345639, AI691131, AI334930, AI309443, AI345562, AI335235, AI307520, AI627874, AI345026, AI307454, AI313346, AI349279, AI340664, AI310592, AI307542, AW167222, AI345817, AW020710, AI697306, AI469738, AI345739, AI345674, AI700159, AW089233, AI538885, AI307550, AI312143, AI349637, AI312168, AI344843, AI352326, AI619723, AA806534, AI334920, AI690389, AI887389, AW071276, AI340726, AI570872, AI310927, AI285777, AI955441, AI048499, AA012905, N22276, AI307578, AI336488, AI349955, AI349738, AW089310, AA514684, AW075093, AI312340, AI452857, AI923989, AW075484, AI309589, AI310930, AI312432, AI758309, AW194014, AI434731, AI312357, AA641644, AI334446, AI921633, AI536664, N75771, AI312237, AI612885, AI470648, N25033, AI500588, AI859991, AI349601, AI307549, AW327325, AI349213, AI335125, AI473471, AI559317, AI678446, N98597, AI049733, AI742728, AW196720, AI925463, AI954504, AW366372, AI284131, AI924035, AI917252, AW168705, AW080675, AW020693, AI673140, AI634736, AI631216, AI345415, U90884, X99257, AF118094, AI133557, AJ003118, Y11587, AF113019, AF061573, U77594, AR068751, AI137480, AB031064, AL080163, AL049314, AR050959, AI137292, AF153340, AI110296, AF158248, AI137521, AF017437, U58996, X52128, AI137471, AL023657, X60769, U79523, AF100931, U86379, AL050138, U42766, U49434, AF036941, M85165, AF090943, AL080234, AI137284, X53587, AB007812, E02914, U92068, AL049464, AF141289, AB025103, X55446, AJ006039, Z97214, AR068466, AC006978, AF077051, M84133, AI137656, AI117435, AI137665, S77771, AI8777, AF111849, AL035067, AL133112, X95876, AI2297, AI137254, X06146, I77092, A70386, AL034374, U75932, AF067728, A90844, AF111851, M85164, AF017790, AI137533, AR038969, X59414, AF042090, AF082526, AL049938, AL110196, AF155119, E01314, X86693, AL096751, AF055917, U49908, A07588, I33391, U02475, M96857, X96540, AI133113, E12579, E12580, E01963, AF077349, AR038854, L40363, AF079763, AF094480, AI133606, AB029065, AF047443, AF179633, AR053103, AI15345, AF141315, AF022813, X87582, A77033, A77035, AR059883, A52563, E06788, E06790, E06789, L24896, AI110159, AI122110, AR013797, AF175903, AI137478, E03349, E02349, AI133016, A45787, U68387, I32738, AL035458, Y10655, E02253, AF069506, X89102, AI117649, U83980, A07647, X99717, AL050143, AI110225, L13297, A21101, X57961, E12747, AI136884, AL049996, X76228, Y18678, AF132676, AF061836, AF176651, AI110197, AF200464, AR054987, AI137275, AI110222, AF111845, AC018767, S78453, AI137298, AI122093, AI110158, AF090900, E08631, AI137558, I66342, AI137548, AI133085, AL049276, AF026816, AF031903, AF126247, AF113757, AF113699, AL080110, AF026030, AF192557, U67082, U55017, X67688, AF044221, AI137529, U87620, AL050116, AL050108, AI137547, AJ010277, Y08616, AL049426, X67813, AF150103, AI133619, AI137555, AF140224, AF201468, A90832, AF035161, I29004, X66417, AI133084, A20553, AL049465,					
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HYAAB66	6815	463413	1 - 312	15 - 326	
HYAAC60	6816	731763	1 - 538	15 - 552	
HYAAD03	6817	923797	1 - 437	15 - 451	
HYAAD67	6818	664597	1 - 431	15 - 445	
HYAAD95	6819	920280	1 - 1417	15 - 1431	AW404921, A1769693, A1949630, AA813912, A1651987, A1762498, AW405307, AA465011, A1652520, AA432286, AW237204, AW341847, A1962755, AA814312, A1440085, AA428631, AW405306, A1866838, AA443988, AA455291, AA984896, AA748641, A1696088, T78905, AW050810, AW406430, A1084063, T78957, T96418, A1005501, A1352635, R11250, R02626, AW408158, R11198, R01685, T96502, AA767241, AA865672, A1383849, and AA299913.
HYAAF33	6820	915050	1 - 439	15 - 453	AA459128, AW245218, A1792687, N48381, W37954, R75759, and AF121858.
HYAAH26	6821	681251	1 - 438	15 - 452	AA834566.
HYAAH36	6822	947242	1 - 428	15 - 442	AL109847.
HYAAI55	6823	674591	1 - 243	15 - 257	N71364, N71313, and AA370184.
HYAAI67	6824	706512	1 - 252	15 - 266	AC006064.
HYAAJ36	6825	744792	1 - 401	15 - 415	AW303286, A1208356, AW341447, AW269000, A1215965, A1932361, and A1001927.
HYAAJ89	6826	678728	1 - 555	15 - 569	AW183775.
HYAAN31	6827	697590	1 - 547	15 - 561	AC002364.
HYAAO39	6828	599000	1 - 398	15 - 412	
HYAAR17	6829	662426	1 - 472	15 - 486	AC005076.
HYAAR95	6830	862585	1 - 676	15 - 690	AA764893, A1355333, AA826004, A1174651, AA847948, W45298, W45283, A1090334, AA502050, A1446601, A1282832, AA713716, AA847984, AW274101, AW274349, AA789107, AA501784, AA714140, AA112458, AA579736, AA708678, AA570227, F17700, AA074265, AA789115, AW131034, Z93017, AC006312, AL031282, AC005480, AC005932, AL031283, AC005529, Z83840, AC006965, AC005031, AC009516, AL049576, AC007055, AC005237, AC005746, AL031587, AC006285, AP000512, AC002565, AL117330, AC004584, AL133382, AL031848, AL132712, AC005911, AC005971, AF090930, Z95114, AP000557, AC005837, AC007308, AC005409, U96629, AC005180, AFI34726, AL024507, AL132992, U95742, AL031311, AC004019, AL035417, AC005777, AC006130, AR036572, U91328, AC007666, AC006539, AF111168, AC000052, AF196779, AC004531, U80017, AL096794, AL008582, AL121754, AC007216, AC005231, AP000354, AL049709, AC005225, A1022329, AL135744, AC004805, AC007993, AF001550, AC001550, AC005043, AC004475, AL035683, AL109963, AC005412, AC004694, AL034420, AC005722, AL121825, AC004876, AJ003147, AL049830, AC005291,

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HYAAS08	6831	926017	1 - 299	15 - 313	AI590404, AI984168, AI915081, AW404543, AI242994, AA247480, AI500645, AW275432, AI733523, R72363, AI610243, R89560, AA595661, H81143, AA358064, AA487053, AI682899, AA730872, AI521042, AA935767, N94115, AA502673, AA484892, N26866, AI570067, AA845690, AI271693, AL048969, AA225141, AI635889, AI888017, AA199578, AA177130, AI216151, AI302917, R61887, AA720582, AI282488, AI292275, AA640104, AA669165, AW072963, W44797, AI307563, F00574, AI280535, AA372053, AA829565, AA507623, AI311796, AI866911, AI040051, AI751341, AI926104, AI889995, AI452836, AI302350, N24909, AL039471, AI500563, AA634786, AA493808, AA015948, AA054085, AA910125, AI521525, AA018207, AW020094, AI031759, AA085106, C15966, AA324108, AI523205, AA342029, AI969095, AA516242, AW117860, AL121174, AW008089, AA402129, AA452887, AA569235, AC004447, AC008115, AC008154, AC003109, AC005037, AL050318, AC005730, AF111168, AC006597, AC004796, AC002504, AC002349, AL022313, AL031432, AL049733, AC005303, AC004707, AF003626, AC006441, AC005339, AC005828, AL109628, AC007637, U07561, AC003013, AL008716, AL031433, AL031662, AF001549, AC004112, AC005015, AC004081, AP000402, AL049780, AL022721, AL050307, AC002357, AC005808, AC002059, AL022326, AC004104, AL133448, AC005231, AL035457, AC003010, U91326, AC002544, AC004033, AC006285, AB004907, AC009247, AC005500, AC005954, AC002351, AC004659, AC004673, AP000501, AC002036, AL009181, AL133246, AC008044, U82668, U91324, U80460, AC004125, AL096755, AL031657, AF217403, AC003108, AL035413, Z98743, AL035072, AC016025, AC004533, AC004590, AL031286, AC005410, AL024498, AC007371, AL034451, AF207550, AC006468, AC003695, AL035659, AL035420, AC005914, Z82976, AL023575, AC005325, AL031228, AC005358, AC004685, Z73979, AP001065, AC004491, AC002310, AL008637,
HYAAT50	6832	724047	1 - 572	15 - 586	

					AC007055, AC005632, AL049636, AC002472, AL022323, AC001228, AC004893, Z97632, Z98044, AC005841, AC005913, Z83840, AC005911, AC004950, AC003043, AP000557, AC005049, AC002077, AC005666, L40817, AC002546, L78810, L44140, AC004821, Z98941, AC004968, AC004019, AC005377, AC004139, Z95118, AC003007, Z98948, Z82201, AC007911, AC004525, AC004050, AF165926, AL139054, AC007688, Z68886, AC005280, AL031587, AC005874, AF134471, AC006076, AL035455, AC005326, AC007731, Z94721, AP000049, AC005082, AC002390, AC005154, AC004699, AC004099, AP000563, AF053356, AP000141, Z96810, AC007056, AP000311, AC007435, AC007664, AF003529, U96629, AC005328, AC004257, U75931, AP001068, AJ011930, Z93930, AF036405, AL133163, AL031295, AC006511, AL035422, AL035458, Z98051, AC004876, AF044083, AL049873, AC000090, AC002319, AC004500, AC004548, AL136295, AP000238, AL008725, AP000094, AP000211, AP000133, AC012384, AC006369, AC004223, AL023803, AC005479, AC002091, AC005921, AL049757, U93305, AL035695, AC004009, AP000088, AC007845, AL035086, AC002420, Z98172, AP000353, AL031311, AC006505, AC006251, AC020663, AC004000, AC009509, AC002553, AJ003147, L48038, AF064861, U29895, AC005212, AC006121, AC005220, AL049539, AC005179, AC004851, AC004650, AP000338, AP000216, AF196972, AC007686, AC005191, AC002054, AC004967, AC006538, AC006111, AC005907, AC004150, AC005796, AC005391, AC004842, AL096791, AL035696, Z84466, AL049830, AC006080, AL121652, AC004686, Z93848, Z97183, AC004913, and AC003665.
HYAAU42	6833	890595	1 - 640	15 - 654	AA078383.
HYAAU88	6834	786666	1 - 595	15 - 609	
HYAAU05	6835	934878	1 - 176	15 - 190	
HYAAU17	6836	662439	1 - 371	15 - 385	
HYAAU65	6837	630213	1 - 220	15 - 234	AI580869, and AI492476.
HYAAU36	6838	766694	1 - 675	15 - 689	W68830, W79652, Z82188, and AF077208.
HYABB23	6839	675659	1 - 516	15 - 530	AA165103, R66289, R65738, AA576361, AA225996, AI825399, AA557529, AA225997, AI934434, AI732388, AB000616, and AB000628.
HYABB40	6840	799572	1 - 531	15 - 545	AW080842, AI126237, AI738708, AI288602, AI200312, AA033525, AA070152, AA033526, AW293916, AA748547, AW182578, AA961647, AA808104, AA410505, AA884100, AI635980, T71568, AA580797, AI004853, AA975024, T82022, AI674097, AA988905, AL133609, AL137420, and Z94722.
HYABB96	6841	692653	1 - 295	15 - 309	W32758, AW026680, AB014536, and AF077226.
HYABC02	6842	919212	1 - 491	15 - 505	Z97988, AC005823, AC006441, AC004941, and AL034429.
HYABC58	6843	924677	1 - 453	15 - 467	
HYABE67	6844	822985	1 - 304	15 - 318	R27814, AI821365, N31533, and AF068302.
HYABE85	6845	697593	1 - 672	15 - 686	R59561, AA513678, and AC005037.

HYABG22	6846	811950	1 - 280	15 - 294	AA883214, FI11291, AW402414, AA099843, AA215472, AW341298, AI298948, AL043290, and AB014566.
HYABL55	6847	678864	1 - 460	15 - 474	AW451063.
HYABP53	6848	971448	1 - 1437	15 - 1451	AW295244, AW383680, AA291031, AA836103, AA825935, AW383670, AW451843, AW383673, AA290625, AI377702, AI347054, AL119324, AL134524, AL119457, AI431323, AL119399, AW392670, AI432666, AL042544, AI432644, AI623302, AI431307, AI431316, AI431238, AI431230, U46347, AW081103, AI432677, AI432653, AI432654, AI432650, AI431353, AI431328, AI431235, AI431312, AI431321, AI431315, AI432655, AI431310, AI431246, AI431231, AI431257, AL119443, AI431347, AL043003, AL119484, AI432657, AI431247, AI431354, AL042729, AL042533, AI431350, AL119439, AI431318, AW384394, AW363220, AL042931, AW372827, AI791349, AW129223, AI432661, AL134153, AL042655, AL042842, AL042508, AL042420, AL042853, AL119319, AL119418, AI431314, AI863305, AL043166, AL042832, AL047611, U46351, AL045327, U46350, AL135012, AI492510, AI492519, AL119391, AI432643, Z99396, AL042802, AI432675, AL042741, AL119497, AW128884, AW128900, AI431337, AL119363, AL042787, AL119355, AI432651, AI432647, U46349, AL042515, AL119522, U46341, AL119444, AI142134, AL119483, AI043295, AW084068, AL134132, AL119396, AI432674, AL134530, AL134519, AL119341, AI431330, AL134531, AL037205, AL119401, AL134527, AL134528, AI431308, AL043147, AI431243, U46346, AL119335, AL119464, AL043091, AI431248, AI432649, AL134533, AI432672, AL040207, AL042542, AL119496, AL042488, AI432665, AL134538, U46344, U46345, AL045328, AL043089, AI431241, AI284508, AL046356, AL043321, AI561182, AL042614, AF019249, AR066494, AB026436, Y17793, AR060234, AL133074, AL133053, AL133049, AL133076, AR054110, A81671, AL133068, AL122101, and AR069079.
HYABV14	6849	956236	1 - 574	15 - 588	AA282390, AA278249, AA488762, AA489734, AA482174, AW134842, AI762326, AA807226, AW082334, AA278706, AA724066, AA521424, AA909178, AA831579, AI131560, AA872215, AA993920, AI243205, AI524170, AA972085, and AI017999.
HYACG89	6850	724923	1 - 505	15 - 519	Z33538.
HYACI15	6851	674268	1 - 292	15 - 306	
HYACI18	6852	665720	1 - 568	15 - 582	N91098.
HYACI64	6853	929756	1 - 511	15 - 525	AI248214.
HYACI95	6854	746317	1 - 519	15 - 533	AI660312.
HYACI53	6855	727948	1 - 702	15 - 716	R00426, H69800, H69043, H61839, Z98884, and AL109628.
HYACF71	6856	760102	1 - 551	15 - 565	H06009, and R20240.
HYACE11	6857	966482	1 - 478	15 - 492	AA226164.
HYACD06	6858	974495	1 - 370	15 - 384	N27362, N23649, AA601503, AA425283, AL048969, AI355572, AA524604, AA595661, AI114869, AI310670, AA640305, AL037067, C15966, AI521525, AI732720, N68677, AW270287, AI272246, AW272815, AI086603, AI224583, C06151, AA535558, R22196, AI754064, AA559219,

AA324108, AA489390, AW419201, AL926102, AA679794, AA669225, AL613459, AA730872, AA493464, AL702049, AA369494, AL349130, AA525423, AW021105, AL134338, AA514937, T49381, AL791457, AL732501, AA831714, AA526415, AA862035, AA491827, AW276968, AL547110, AL061313, AA526542, AA664963, AA382435, N95424, AL275989, AL254267, AA568303, AW410844, AL523205, AA601376, R43468, R23873, AA904275, AA582080, AL076729, AA610381, N27737, H37968, AL121039, AL986101, AW085751, AA199578, AL114494, AA847504, AW103990, AW275788, AL065031, AA708751, AW419209, AW302705, AA761606, AL751341, AC004134, AC004099, AF207550, Z97056, U91326, AC004686, AC005730, AL031587, AC005911, AC005089, AF038458, AL078593, AL121603, Z97054, Z83840, Z86061, AC005755, AC006965, AC005839, AC004929, AC005914, AC006001, AC005280, AL008582, AL096791, AL034555, AC005500, AC003006, AC005546, Z83844, AC004583, AC004755, AL049766, AC006536, AL035089, Z98051, AC006942, AC007731, AC005519, AC004890, AF042089, AC006251, AC003029, AL109984, AC005082, AC005399, AC005800, Z97183, Z95113, AC000094, AL035422, AC010077, AP000557, D88268, AL080243, AC005225, AC002470, AC005277, AL023575, AC007226, AC004542, AC005913, AC006121, AB023048, AL022316, Z98304, AC007686, AC005696, AC004893, AL031433, AC002375, AL133353, AL021578, AC007666, Z93930, AC004531, AC005067, AC003982, D87675, AL031005, AL109758, AC000003, AL031670, AL050308, AP000031, AC005666, AC005726, AC006160, AL031659, AC007546, Z93241, AC007406, AC007688, AC007283, AL049795, AC005335, AC008372, AC005011, AC005531, AL031281, AC005971, AL024507, AC005484, AC004913, AC006088, Z85986, AL020997, AC004139, AL049777, AC002395, AC005921, AC005372, AC004865, AB001523, AL022302, AL009183, Y18000, AP000135, AC005632, AL049569, AL021391, AC005081, AL022476, AC009946, AP000505, AC007021, AC005086, Z15025, AL133448, AL022726, AC005944, AC004762, AC004150, AC009516, Z93244, AC005829, AC007030, AC005207, AC005288, AL021707, AF129756, AL022322, AC005257, AC010170, AL031255, AC006515, AC007371, AF134726, AC006241, AL121595, AL035460, AC005841, AC006162, AC004821, AC005972, AC006111, U72788, AL049539, AP000703, AC002314, AC008115, AC004983, AL109827, Z86090, AL035423, AC020663, AP000563, AJ011930, AC008273, AF047825, AC006064, AP000556, AC005015, AL139054, AC006480, AL031845, AJ003147, AC004685, AL096774, AC005932, AP000502, AL135744, AC006468, L78810, Y12855, AC007227, AC007151, AP000692, AL033527, AC004598, AL022723, AL109952, AP000555, AC004999, AC004895, AC003010, AC000052, AC006538, AC006511, U91322, M63543, AF165926, AC004587, AL031120, AC005041, AC012627, Z49236, AC004953, AC005377, Y14768, AB032485, AC006581, AL031680, AC005815, AP000140, AC006958, AL022336, AL049776, AL031282, AL031602, AP000354, AC005037, AF030876, AF011168, AC004263, AL023694, AC007676, AL034429, AC002045, D87008, AC003969, AP000226, AC000120, AC005940, AL021453, AL035086, U78027, Z73420, AC002425, AC004019, Z95115

HYACC03	6859	923525	1 - 709			AF196969, AL109798, M89651, AL031589, and AC004477.
HYABB43	6860	800006	1 - 449		15 - 723	AA179370, and AA464124.
HYAAY57	6861	734463	1 - 430		15 - 463	AA131782, AI279457, AI459300, AI887969, and AC010175.
					15 - 444	T66305, AA886512, F09927, AA749328, AA815166, AI475828, AA648819, AA651977, AA953511, and AA741442.
HYAAV45	6862	717479	1 - 530		15 - 544	W88974, and AC004582.
HYAAU65	6863	909956	1 - 581		15 - 595	T81523, T98761, AL080117, AB023176, and U14103.
HYAAT55	6864	731420	1 - 398		15 - 412	T98379.
HYAAT39	6865	929758	1 - 447		15 - 461	R62243, AI298594, H00843, AA400786, AW453087, W69160, AA485564, W57903, AI810717, AI860626, R69650, and R69664.
HYAAN84	6866	782838	1 - 802		15 - 816	AA464831, AA180467, AA505048, AA449184, and AC012083.
HYAAL49	6867	973089	1 - 479		15 - 493	
HYAAL41	6868	887395	1 - 622		15 - 636	AW392670, U46347, AB026436, AR066494, AR060234, A81671, AR054110, and AR069079.
HYAAL19	6869	668338	1 - 922		15 - 936	AA082707, AA081874, AI201257, AA489677, H22947, AI269725, N63194, H11596, F04937, R39853, N63182, R05455, and AC005070.
HYAAK77	6870	887044	1 - 765		15 - 779	R84433, H83979, and AA017024.
HYAAK74	6871	765252	1 - 510		15 - 524	R93968, W93000, and AL109613.
HYAAJ03	6872	923526	1 - 434		15 - 448	AI092745.
HYAAF78	6873	773433	1 - 467		15 - 481	H01888, R93377, AL110203, Z83843, and AC004386.
HYAAD24	6874	677019	1 - 550		15 - 564	H63893.
HYAAC24	6875	677010	1 - 675		15 - 689	AA075368, AA075369, AA559324, AA804735, AI336026, AI114694, AI732327, AC007406, Z69364, D87009, AC004815, AL031257, AC007263, and Z83844.
HYAAB40	6876	841969	1 - 631		15 - 645	AA497098, and AC006023.
HWWEW1	6877	965434	1 - 648		15 - 662	W38418, W38417, AW362370, AI368729, AI523296, AA548224, AA868898, AI653483, W73847, AA558195, AA700476, AI828445, AW305153, AA548241, AA707354, W69719, W73703, AA164647, AI539088, Z19840, AI752812, AI752779, AW262145, W38359, AI399680, AA164646, R71097, AI073454, AI871525, F09131, AI686475, AA917430, AA372471, AI811402, R71445, AA418958, AI695645, AI242956, AA385654, AI304631, AI597928, AW362391, and A75407.
HWWEW1	6878	965426	1 - 423		15 - 437	AA553392, AA526829, AI023375, AC008372, AC005839, AF111168, AC005288, AC007371, AC004520, AC000353, AL031733, AL022163, AL022320, AC005756, AC004983, AC004707, AL121652, AC002300, AL109984, AC006581, AC004966, AI003147, AC005510, and AL031276.
HWWEW06	6879	933690	1 - 415		15 - 429	AW452648, AI249134, AA831307, AA504653, AW182255, AI468242, AW444889, H14382, T33198, AA731107, F37077, R99416, W46344, W05246, AI632386, AI521519, AW150858, and AF151907.
HWBGG82	6880	779081	1 - 665		15 - 679	N23897, and H84937.

HWBGF04	6881	927284	1 - 477	15 - 491	AI338804, and AL120936.
HWBFY46	6882	800638	1 - 1783	15 - 1797	AI791349, Y17793, and AF064854.
HWBEG18	6883	909798	1 - 940	15 - 954	AA906863, AW408789, AW452373, AA352977, AA732349, AI269653, AI492098, and AB020653.
HWBEF69	6884	754328	1 - 506	15 - 520	T85049.
HWBEE25	6885	677660	1 - 520	15 - 534	H46563.
HWBEA06	6886	934820	1 - 361	15 - 375	AA641774.
HWBDU71	6887	835888	1 - 521	15 - 535	AA502126, AL109939, AC004859, AC008078, AC005951, and AF002223.
HWBDU58	6888	735774	1 - 930	15 - 944	H20642, AW294637, R60622, R25933, and Z74739.
HWBDS59	6889	743462	1 - 768	15 - 782	W94699, W88759, W88744, W88864, AI081615, AI903841, AA176310, H81217, AW090258, N73198, N58667, N48499, AA359586, W25203, R81022, AA345015, AI940407, AA113397, AA215919, AI807163, R95799, H37844, R87151, AA630583, T71499, N77311, W88840, H66405, AA309734, AA026675, AA385486, R87079, AA315010, W37275, R01782, Z71183, AL050254, A85213, and AF129537.
HWBDS12	6890	971872	1 - 430	15 - 444	AI189929, AI300829, AI829939, AW452299, AI188478, AA651825, N42191, W37646, AI002523, AI672667, AI344390, AA948467, W37382, AA831436, R11180, AW191839, AA287646, AA845191, AA835036, AW196619, R95793, AA502473, AA480612, AA704742, R11179, and AF201951.
HWBDR82	6891	779002	1 - 469	15 - 483	AA905379, T91925, and AC000386.
HWBDQ58	6892	735769	1 - 731	15 - 745	T81870, and N52370.
HWBDL82	6893	728805	1 - 647	15 - 661	AW247455, H10647, T80026, AA322636, AA663768, H39049, R15783, AA203493, W78783, AF070594, AF033827, and AF022729.
HWBDK08	6894	958956	1 - 370	15 - 384	AI917114, AI873737, AA664124, AL039309, AW161459, AW161879, AI191343, AI003797, AA936548, H24953, AA715508, AA504951, AA524846, AW243945, AA728861, AA664248, AW275432, AA525041, AA715351, AL043745, AI805261, AI246061, AW069227, AI246192, AI880889, AI865980, AL134216, AI634187, AI457313, AL138299, R95030, AL031281, AC002395, AC007656, AC005519, AF139813, U85195, AC005274, AL031767, Z97054, AE000658, AC004228, AC007564, AL121603, AP000692, AC003041, AP000500, AP000503, AL031311, AL031680, AC005562, AF111168, AL079342, AC007938, AF111169, AC005529, AC006449, AL078615, AL049699, AC006115, AC007684, AL035460, AC005291, AL132712, AC005037, AC002312, AC004859, AC006254, AC007216, AC005722, AL109865, AC006121, AF111167, AC005969, U91318, AC006317, AL031282, AF134726, AC006480, AC004526, AC007376, U91327, AL031848, AJ011930, AC005520, AL109798, Z84469, AC004230, AF060568, AL122020, AP000193, AL109827, AC005899, Y10196, AL035427, AP000117, Z95152, AP000502, AC002120, AC004884, AL031667, AL049843, AC005730, AL021397, AL022238, AL132777, AL049830, AC005632, AC005180, AC002978, AC005839, AC007384,

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HWBCV48	6895	721010	1 - 404	15 - 418	AA213930.
HWBCU06	6896	935028	1 - 505	15 - 519	AT738409, AI359532, D78803, AA595178, AA587092, AW135877, and AC000120.
HWBCS08	6897	909031	1 - 548	15 - 562	AA197234, AL119641, AJ132948, AB029036, AF119043, and AL035410.
HWBCH41	6898	868342	1 - 356	15 - 370	AA279024, R10600, and AC006323.
HWBCD20	6899	669472	1 - 624	15 - 638	T78846, and AF007131.
HWBCA08	6900	958957	1 - 550	15 - 564	T12632.
HWBBY86	6901	637734	1 - 491	15 - 505	AL096791.
HWBBV52	6902	726509	1 - 450	15 - 464	N32962, T87837, and AL021938.
HWBBU10	6903	964237	1 - 387	15 - 401	L25504, AI370343, L25228, AP000339, and AP000217.
HWBBT71	6904	760176	1 - 398	15 - 412	N44984.
HWBBR45	6905	887686	1 - 384	15 - 398	AA501578, AA927092, T94866, AA098829, R88888, AA199616, T65291, AI282336, H93144, AA632548, AA199631, AA780797, H86264, T90248, AA610420, AA772570, AA558060, AA804962, AA279427, R38154, AA161083, AA513293, AW074398, AA862173, H69580, AI053434, AI053816, AI054246, AA680211, AI824562, AA620425, N25296, AI963095, AA483034, AA834755, AA563818, AA908349, AI286264, AA613851, AA654771, H86301, R97634, AA847984, AA310879, AA732481, AI053429, AA583955, AA877817, H50727, AA747480, AA491284, AA574110, AA533725, H69640, AI312149, H85616, AW274349, T92445, AA521399, AA703707, AA649484, AA167673, AA632868, AA714595, AA649542, AW303196, AA603156, AW301350, AA554319, AA401657, AA775940, AA654627, AA661948, AA310868, AI561335, T71030, AL079843, AA837058, AA503258, H81733, AA810370, H09313, H86860,

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HWBBQ22	6906	861613	1 - 700	15 - 714	AA252664, AA593956, AA923113, AA551870, AI640612, W32234, AI220856, AI202821, AI199482, AI572009, AI815979, AI878998, AI879497, AI309256, AI885030, AW008397, AI816062, AW054852, AW007352, AI141037, H71578, AI693593, AA642443, AI197973, H01948, AA513683, AA283774, AA025347, N48184, AA293644, AA044813, AI660034, H89912, AA318740, R34586, AW293033, H13523, AI245242, and AF041429.

HWBBN86	6907	785313	1 - 535	15 - 549	R97917, R97918, H57950, and AC003999.
HWBBM02	6908	919423	1 - 508	15 - 522	AA587133.
HWBBL57	6909	868349	1 - 416	15 - 430	AA559030, R16068, and T72674.
HWBBL03	6910	923691	1 - 455	15 - 469	AA565820, and AA420538.
HWBBF60	6911	740125	1 - 351	15 - 365	R38327, and A1470403.
HWBBE52	6912	868358	1 - 449	15 - 463	AW183158, A1743674, AW170591, A1244986, A1336219, A1285158, AW135808, AA612970, N52534, T72657, AA932859, AA861691, A1868903, AW024446, A1760918, and A1783670.
HWBBD23	6913	675360	1 - 497	15 - 511	W56858, AB023145, and AB028449.
HWBAX77	6914	771958	1 - 526	15 - 540	H00548, and Z69648.
HWBAT83	6915	780976	1 - 412	15 - 426	M78523, H84125, AA013441, AA017681, H86611, AA651763, and AA873021.
HWBAS96	6916	796126	1 - 491	15 - 505	R06345.
HWBAR29	6917	690422	1 - 621	15 - 635	N36225.
HWBAQ71	6918	944080	1 - 458	15 - 472	AA078851, and AW237409.
HWBAQ02	6919	919351	1 - 519	15 - 533	A1221469, and AA883558.
HWBAO50	6920	724135	1 - 390	15 - 404	AA215799, AA523695, A1306717, R99076, A1915081, H29914, AA484892, AL045476, A1709174, AA582746, A1370170, AW272640, AW392414, A1130709, A1536858, A1537995, AA573000, A1131261, AA315361, AA458573, A1814682, A1291439, AW079737, AA984920, H80935, N69548, AA469441, AW265155, R87135, A1471455, AW190277, AW148775, AL046193, AL044340, A1687343, AA297776, AW302670, AW419389, AA429481, A1873627, AA078137, A1417586, R94436, AA298771, A1476049, AA657910, AW089016, AW084173, AL037927, AA662989, AA405798, T40629, AA568314, A1376454, AA515723, AA654482, AA837771, AL031428, AC006312, AP000501, AC006480, AC007225, Z93241, Z98946, AF064859, Z95115, AC005049, AF109907, AC005058, AC002477, AC004820, AF196969, AL121757, AC006101, AC004963, AL035422, AC005006, AL049712, AD000092, AL121603, AC004941, L78833, AC005924, AP001050, AL035086, AC007040, AC004025, AC004231, AP000312, AC005274, AL031668, AC000075, AC004491, AC004796, AL049835, AF006487, AF027974, AC004967, AC007878, AL031664, AL035071, AC002369, AC005823, AC005736, AP000356, AL049759, AC004656, AC004878, AP000503, AF165926, AC002544, AC006947, Z85987, AC004653, AC005696, AL139054, AL021394, AC003684, Z97630, Z85986, AF030453, AC005041, AC004883, AC006536, AC001228, AC005237, AF134726, AL109854, AL022322, AC005190, AL034423, AC003101, AC004526, AF129756, AL109984, AP000193, AP000045, AP000113, AC005800, AL022311, AF045555, AP000050, AC005509, AP000504, AL109623, AC005722, AC007559, AC005088, AC007546, AC004815, AP000117, AC004079, AC002312, AC005666, AC000059, AP000299, Z98272, AC005202, AP001052, AL008730, AF027390, AL049692, AC006057, AC005231, AC004217, AP001053, AC005081, AC005899, Z95331, AF038458, AC002126, AL034351, AC006270, L48038, AC005189, AC003004, AL023575,

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HWBAO38	6921	709490	1 - 486	15 - 500	H59128, and H47298.
HWBAK65	6922	747731	1 - 503	15 - 517	AI359877, H09144, R44298, R51016, R50773, AI074576, AA035771, AI934373, T52471, H10009, R31770, AA397967, F04627, AL047188, AL042009, AL039390, AL046681, AL046137, AI049726, AA598862, AI249936, AI672187, AL042551, AI446483, AL045503, AW337394, and AC007688.
HWBAJ13	6923	975117	1 - 1792	15 - 1806	AI431351, AL119324, AI432644, AI623302, AI431354, AI431323, AI431353, AI431347, AI432653, AI431230, AI431328, AI432654, AI432655, AI431310, AI431312, AI492519, AW081103, AI432677, AI431337, AW128900, AI432661, AI432674, AI432675, AI432672, AL119319, AI432651, AI432647, AI431254, AI431241, AI431330, AI431243, AI431357, AL119457, AI432650, AI431248, AI431255, AI431345, AI432649, AI432665, AI431307, AI431346, AI431316, AI432662, AI432676, AI432673, AI432658, AI432664, AI431340, AI791349, AW128846, AW392670, AL042544, AI431238, AL119399, AW372827, AI431308, AL119443, AI432657, AL119341, AW128897, Z99396, AI431247, AI431751, AL119355, AI432643, AL119363, AL119444, AI492510, U46349, AL037205, AW384394, AW363220, AI432645, AI431231, AL119497, AI431257, U46351, AL119484, AL119391, U46350, U46347, U46341, AL119483, AW128884, AI431350, AI492520, AI42131, AI431318, AL134920, AL042433, AL119439, AL119522, AL119396, U46346, AI431235, AL119335, AL042984, AI431321, AI431315, AI492509, AL134902, AL119401, AL134536, AL119464, AL134525, AI431246, U46345, AL119418, AL119496, AL134538, AL042614, AW129223, AL042450, AL043019, AL042542, AL042965, AL042975, AI043029, AL042551, AL042729, AL043003, AL119304, Y17793, AR066494, AB026436, AF019249, AF064854, AR060234, AR054110, A81671, and AR069079.
HWBAH72	6924	766073	1 - 457	15 - 471	R53373, and R19776.

HWBAH16	6925	661664	1 - 591	15 - 605	N76551, AI051605, and AW450879.
HWBAF43	6926	715111	1 - 587	15 - 601	H69407.
HWBAF09	6927	625401	1 - 265	15 - 279	AA255938.
HWBAC02	6928	919559	1 - 438	15 - 452	AI129592, AW377636, and AW390415.
HWAGV04	6929	926759	1 - 482	15 - 496	AA169855, and AC004069.
HWAGQ02	6930	953013	1 - 675	15 - 689	AI829939, AA651825, W37382, AI188478, AI672667, AI344390, AA845191, AA835036, AA831436, AA948467, AA704742, AI002523, AW191839, AA287646, T62849, R95793, T90287, AW191840, R11180, AI189929, AA988042, AA999818, R94937, AI300829, AW196619, AA886287, AA938191, W37646, AW089814, N42191, R95749, N74604, AW452299, AA502473, AA480612, R11179, AA703157, AW341475, and AF201951.
HWAGO42	6931	958373	1 - 561	15 - 575	AI738975, AI036481, AA232116, AI337371, AW138609, AI654432, H24091, and AC007250.
HWAFQ10	6932	961339	1 - 1031	15 - 1045	AA417827, and AA256655.
HWAFM60	6933	868436	1 - 608	15 - 622	AA258987, AI020997, and AC007193.
HWAFG12	6934	969605	1 - 403	15 - 417	AI831120, and AW152248.
HWAFE87	6935	949950	1 - 437	15 - 451	
HWAFD56	6936	868452	1 - 407	15 - 421	AA460146, and AI962568.
HWAFD10	6937	963323	1 - 402	15 - 416	AI453777.
HWAF47	6938	948858	1 - 346	15 - 360	AC002310, AC002119, AC005839, AL049569, AL035683, AL031594, and AC007382.
HWAF405	6939	930990	1 - 786	15 - 800	AI991703, AI650617, AI051377, AW206131, AA284515, AA287237, AI797889, AI245567, AA576442, AI660645, AI091867, AA251505, AI141021, and AI536674.
HWAEZ81	6940	868460	1 - 505	15 - 519	AI368732, AI244157, AA297666, T57767, AA757426, AI814820, AI624528, AA664126, AI241705, AA130820, AC004985, D87675, AP000501, AI022320, AC005839, Z99716, Z81364, AF196969, AC005924, AL031291, U47924, AC005527, AL034549, AL023553, AF196779, AC005088, AC005779, AL050318, AC002310, AF031076, Z97054, AC005004, AF111168, AC004477, U95740, AC004796, AL033527, AC000353, AC005921, AC005529, AC002115, AC010168, AF003626, U63721, AC009247, AL035086, AC006512, AP000557, U80017, AC005015, AC007308, AC005519, AP000692, AF031078, AC005295, AC007263, AC005358, U62292, AC002470, AF030876, AC004686, AC005940, AC005702, AC004883, AC007055, AL096791, AL135744, L78833, AP000088, AC005280, AC002425, AC002300, AL121658, Z95114, AL022326, AC005017, AC007546, AL031276, AC007684, AC002565, AC006511, AC005874, AF134471, AC007227, AL031662, AP000555, AL109952, AC004024, AL034429, AC005632, AF109907, AL034420, AC002316, AC004859, AL050332, AC004655, AC005412, AL031255, AP000330, AC016830, AC005740, AC005231, AL031295, AC004841, AL080243, Z86090, AC005520, AC006480, AL049869, AC005971, AC005102, AC006441, AL035659, AC005666, AC004895, AC012384, AC004659, AC002504, AB023050, AC004765, AC002350, Z94802, AF001548, AP000067, AC005387, AC005911, AL035420, AC008044, AL049569,

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HWAEZ19	6941	874351	1 - 505	15 - 519	AA693960, AA773315, AA701937, AI640497, and AA679299.
HWAEU35	6942	887166	1 - 460	15 - 474	
HWAE10	6943	838763	1 - 402	15 - 416	AA747537.
HWAE25	6944	951965	1 - 876	15 - 890	AA258884, AI133088, and AA134634.
HWAEK27	6945	868494	1 - 566	15 - 580	AA663139.
HWAE71	6946	931547	1 - 560	15 - 574	N43812, N28593, N42447, N25847, N42638, AA164284, and M94043.
HWAE08	6947	958115	1 - 703	15 - 717	AI640322, H11674, AA481880, AI687453, T08591, AW408528, and AB018339.
HWADQ35	6948	868526	1 - 850	15 - 864	AW242308, AI718675, AA446440, AA639514, AA429990, D20149, AA446133, AW269686, AA446252, AA490572, and AI914301.
HWADO27	6949	682458	1 - 549	15 - 563	T83909, and R68586.
HWADN42	6950	713272	1 - 379	15 - 393	AI984550, and N79076.
HWADM84	6951	782685	1 - 730	15 - 744	H05351, AA826458, and AL137351.
HWADI46	6952	891149	1 - 252	15 - 266	R88163.
HWADE25	6953	677594	1 - 413	15 - 427	T70432, T83092, and W28247.
HWADD18	6954	665173	1 - 446	15 - 460	AL039706, AI744599, H19229, AI220556, AI954761, AI052561, AI992311, AL039705, R02726, Z40315, AI872336, W44986, AI521131, AW248932, AI032378, AI978572, AI950218, AI203399, AA858242, AI203400, and AR022159.
HWACZ56	6955	733002	1 - 312	15 - 326	AA056722.
HWACY70	6956	756888	1 - 540	15 - 554	AA127538, AA007643, AI702678, AA263149, AA285232, AI904448, and AW390105.
HWACS69	6957	774914	1 - 601	15 - 615	AA130132, AA826414, AW262702, AW069242, AA165524, AI922531, W81127, AI095845, AI424003, AI299901, AI557105, AI872483, AA088173, AA136051, AI216212, AA776540, AI383347, D20019, AI051093, AA405559, AA258314, H60707, AI168098, T65372, AI246309, H17966, AI572143, AA130119, H22958, Z39390, AW269492, F09402, F40023, F04748, F03710, AI619876, N90250, F02805, W94821, N66673, AA088630, AI419665, W31598, AI217531, R20768, R50838, AI378963, and AI890899.
HWACQ54	6958	729166	1 - 195	15 - 209	AA054175, AA018743, and AA015643.
HWACJ56	6959	733013	1 - 406	15 - 420	T81159.
HWACI46	6960	718711	1 - 526	15 - 540	T53843, and N77512.
HWACH03	6961	923374	1 - 415	15 - 429	AI051545, and T95620.

HWACD30	6962	691565	1 - 383	15 - 397	AI143085, W63738, and W61076.
HWABY68	6963	927387	1 - 416	15 - 430	AA242852, AI129391, AA743400, AI934605, AA252186, AA531278, AA705950, AA418351, AA834128, AA530987, AA252187, AW249796, AI377360, AI684366, R54388, H07875, AI289290, and AC006942.
HWABV67	6964	751409	1 - 504	15 - 518	N57896, and AC005232.
HWABV34	6965	868535	1 - 380	15 - 394	AI190781, AC005920, AC004531, AC006141, AL021391, AC004883, and Z93930.
HWABP20	6966	669486	1 - 370	15 - 384	T87470, and T85392.
HWABP19	6967	951277	1 - 433	15 - 447	AA535015, AA361063, AA361359, and AR035946.
HWABP02	6968	919442	1 - 448	15 - 462	AA766487, AA504639, and H83494.
HWABI13	6969	656767	1 - 678	15 - 692	AA258954, AA258920, AI251082, AA715090, AI674840, AI470431, AI223604, AW360896, AW021735, H12071, H84675, AI754271, AI755164, AI431434, AA283005, AI470437, AW104793, AA077786, AI309375, AA581903, AA420998, AA572874, AA421078, AW275425, F12561, AA468022, AI274252, AA770584, AL042853, AI889566, AA877932, H09744, AI298061, AI281909, AW008450, R61498, AA876445, AW169038, AA665021, AA579367, AI537041, AA001904, AI017251, AA169129, AA476397, AA431949, AI766906, AI886432, AW021583, AA191659, AA630451, AL048534, AA553624, AA918958, AW192065, AI382289, AC006441, M74492, AC007993, AF053645, AC004884, AL034375, AC005562, AP000349, AC002430, AC004477, AL049759, AC000039, AC005778, AF031078, AC007384, AC005015, AC006023, AC004890, AF030876, AL121653, AL121658, AL031311, AC005034, Z98044, AC003109, Z98744, AC005952, AC005678, AC005102, AC002996, AP000320, AC004881, AC009516, AC007263, AP000556, AC005800, AL034551, AC005993, AF050154, AF106656, AC007676, AF037338, AP000351, AL049776, AC006511, AC005912, AL117338, AP000555, AC004778, AC006101, AC002558, Z83841, AC005701, AC005933, AL022165, AL132774, AL080243, AC004815, AL035659, AC006953, AP000557, AL117258, AC004227, AC007565, AC004475, AC012083, AL096701, AC004662, Z97054, AC004167, AP000135, AC002404, AC018633, AL021155, AP000031, AC004656, AC006241, AC005829, AC004061, Y07848, AC005786, AL109627, AL031846, AL022323, AL133297, AL133245, AC006548, D88268, U91322, AP000553, AC004851, AJ229042, AC006582, AC003999, AC004596, AC003036, AF196779, AC006487, U73636, AL035423, U52112, AB014077, AC005081, AF053356, AC007707, AL049757, AC004099, AL031281, AF064863, AC004841, AP000697, AC001226, AL035458, Z95125, AL035684, AC005412, AC005871, AL031428, AP000694, AC005759, I42088, AL049766, AC007227, AP000345, AC005568, Z95152, AC004209, AC000379, AC008134, AC006581, L78833, AL031984, AC004647, AC006039, and AC004134.
HWABH68	6970	929275	1 - 200	15 - 214	AA708891, T84753, AA862842, AA906049, H62449, AA192606, AI697110, AI476751, H62426, AI270685, AA588738, AA770029, AI803894, AA548631, AI859177, AI696295, AI559322, AA622890, C75563, AI830046, AW014772, AI678463, T98662, AW243066, AA677245, AA369307, AI282884, AA614646, C75627, AI698074, AW303681, AI310008, AA508708, and

HWABG11	6971	949088	1 - 710	15 - 724	A66648, AW028517, A1492449, AA172063, N71710, AA312583, A1243139, AA259158, H08035, and AA214724.
HWABD52	6972	726510	1 - 398	15 - 412	AA195245, AA416793, AA444146, AA195430, AL040098, and AA443964.
HWAAAY79	6973	791452	1 - 462	15 - 476	N64316, R63682, and AA418089.
HWAAAY51	6974	973237	1 - 350	15 - 364	
HWAAAX48	6975	721442	1 - 519	15 - 533	H08515, AW451243, A1342965, A1916317, and AW173677.
HWAAW6 5	6976	779578	1 - 858	15 - 872	AA938191, AW089814, R96588, AW191840, AA988042, AA886287, AW196619, AA835036, R94937, AA999818, AA704742, AA831436, AA845191, AA287646, AA651825, A1188478, AW191839, W37382, A1344390, R11180, AA948467, A1672667, R95793, T90287, A1829939, A1002523, T62849, and AF201951.
HWAAQ76	6977	887772	1 - 987	15 - 1001	AA993487, AA969929, AA993756, AW023082, AW059828, AW161156, A1345335, AA715307, A1269862, A1364788, A1627988, AL036673, AL079963, AA225339, A1345005, A1698401, A1366900, A1860003, A1872423, AW268302, AW274192, AW072719, AW087445, A1783504, A1620284, AW162194, AL045500, A1866770, A1886753, A1824576, A1334893, A1306613, A1874166, A1670009, AA809974, A1890507, A1554245, AW071417, A1889189, A1890907, A1538850, A1623941, AW117882, A1624543, AW198075, A1345463, A1539153, AW302992, A1923989, A1433976, A1863382, A1917963, A1859991, A1434741, A1047675, A1349957, A1433157, A1554821, A1274507, AW151136, A1310575, AW130930, A1539771, A1371228, A1537677, A1340533, A1494201, AW160905, AW172723, A1500659, A1343091, A1815232, A1251221, A1801325, AL121270, A1500523, AL037454, AL042440, A1582932, A1284517, A1500706, A1445237, A1491776, AW151138, AL047422, A1521560, A1500662, A1926878, A1637748, A1520809, A1284509, A1284131, AW301513, A1889168, A1064830, A1866573, AL037649, A1633493, A1434256, A1866469, AL110402, A1805769, A1888661, A1284513, A1888118, AW083778, AL119863, A1250369, A1436429, A1889147, AW238688, A1440252, A1624154, A1699865, A1610557, A1686906, A1433037, A1828583, AA761557, A1783997, A1887499, A1923509, AL039086, A1863321, AW022699, A1340603, A1619502, A1677796, A1632408, A1886181, A1802542, A1352497, AW080700, AW168373, AW198144, A1620089, AA449768, A1288305, A1886123, AW118518, A1352326, A1348854, A1499285, A1570807, AW168485, A1933589, AW026882, A1635067, AL042628, A1923370, AW149925, A1537261, Z99428, AW163834, A1251485, A1445992, A1445990, AL119791, A1345745, A1702073, A1690748, A1340511, A1866465, AW191003, A1334445, AL040243, N33175, A1349645, AL036980, A1500061, AL039276, AW051088, A1349598, A1620075, R32821, AA641818, A1440263, A1633125, AL043981, AW269097, AW161579, A1038445, AW082113, A1698391, AW170635, A1917252, A1915291, AW152182, A1890628, AW083804, A1571867, AW302973, AW268060, A1473536, A1500588, AL045163, A1610667, A1345347, AL042745, A1445864, A1468872, A1973152, A1540754, A1866786, A1886192, AL036631, W74529, A1923046,

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				15 - 479	AA034268.
HWAAAM30	6978	691878	1 - 465	15 - 479	
HWAAAL70	6979	757035	1 - 698	15 - 712	AA651842, AI830925, AW270749, AI356943, H41232, AW236741, AI183844, and AA724467.
HWAAAI41	6980	712141	1 - 370	15 - 384	H71498, AA581460, AI873759, AA547947, AW179306, AA630672, AA610219, AI138329,

				AI249683, AI039584, AW179305, AA478355, AA640710, AI470646, AA478297, AI445674, AI921649, N31072, AI376100, AW236259, AI453383, AW074059, AI956124, AI356904, AI922654, AI564284, F15832, F16183, AA534010, AA535406, AA747777, R57956, AA491681, AA384725, AA837087, H81346, AA702614, AI858864, N35000, AA613630, AI888759, AI917132, AI110688, F00212, AA776936, AA776921, AI908575, AI285696, AI135357, C16675, AI278972, AA324242, AA749235, AA613232, AA507612, AI982884, AA077401, AA832145, AI708009, F30158, AA436774, AI017251, AI923333, AW193760, AI382017, AA436782, AA601356, AI134519, AA455252, AA365141, AA745189, AI798493, AI708139, AA078616, AW081296, AF067844, AC004990, AC005193, AC005250, AC005191, AC007285, AI034451, AI031391, AC016027, Z93783, AC002350, AP000351, AI121653, AI109627, AC005274, U95740, AC007690, AC005102, L78810, AC005318, AC016830, AC006515, AC003030, AC004491, AC004682, AL008583, AC020663, AL049712, AC005900, AC004485, AC004526, AC007462, AC004773, AC005060, AC004834, AL139054, U91322, AC007221, AC002400, AL133245, AL031311, AC005694, AC004755, AC002288, AB023048, AC006063, AC005011, AL035079, AL049697, AL031577, AC005221, AC008040, AC007546, AC005245, AC004386, AF196971, AC007225, AC004883, AC005618, AL121823, AF111168, AC005837, AI121757, AI035072, AC004167, AF064866, AC004087, AC005529, AI121578, AC003982, AC005180, AP000961, Z86090, AP000045, AP000113, AL079340, U53331, AC007227, AC002404, AC005620, AC007514, AL035443, AC005690, AE000658, AC002352, AL049759, AC005089, AC005829, AC003667, AL035695, AL031121, AC005366, AC003006, AC004675, AP000299, AL031388, AL034424, AL035420, AC004821, AL049757, AC006960, AC005702, AC004941, AC006597, AC005940, AL050312, AC006013, AF088219, AC007051, AP000104, Z84476, AL096776, AC005071, AC003684, AC004972, AL034449, AC007919, U82828, AC006237, U89335, AC004864, AL121603, AL031228, AC011718, AC002310, AC006511, AC004707, AC006043, AC004929, AC007664, U85195, AC004963, AC000159, AC006530, AI021453, Z97195, AL031283, AC003950, Z84469, AC004259, AC004638, AC005210, AC004000, AI109977, AC004600, U52112, AC007064, AC007637, AC000085, AC005328, AC002543, AC004448, AC007536, AL034379, AC003664, AC005081, AC004643, AL031427, AL031296, AI050402, Z83840, AC006312, AI109985, AC005881, AP000493, AC002091, AC005730, AC004477, AB023051, AI096773, Z95114, Z99127, AC003013, AI049713, AC002349, AF222686, AC005399, AC008044, AC002565, AC002312, AC002476, AC006077, AI022163, AI049766, AC007371, AI133396, AC002559, AP000152, AC004130, AI049869, AI133485, AC007279, AF023268, AF130343, AP000297, AI035423, AC006487, U47924, AI122003, AI021154, AC006537, AC004945, Z98742, AI031053, Z94056, AI031687, AC006509, AC004865, AC007056, AI109827, and AC007738.	
HWAAF60	6981	751037	1 - 561	15 - 575	T27537, AW161408, AW163687, AI751466, AA325962, AI372642, AA210947, H23526, AA463392, AW163477, AA533225, W69511, AA190334, AA227416, R5328, AW246998,

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HWAAE31	6982	841973	1 - 352	15 - 366	AA251131, and AA775171.
HWAAAB06	6983	935131	1 - 465	15 - 479	H54960, and AI239325.
HUUDR34	6984	944903	1 - 646	15 - 660	N62033, N28254, H55465, Z83844, and X87671.
HUUCS12	6985	969325	1 - 675	15 - 689	T99881, T81169, and T99780.
HUUCI02	6986	940813	1 - 776	15 - 790	AI033712, AI954084, AW167226, AI983520, AL041005, AI984573, AI432645, AA131336, AI564483, AA191629, AI907763, AW370258, AI679914, AA313042, AI679407, AI174699, AI890600, AW379481, AI623994, AI924918, W81030, AI683963, AA406281, AI056626, AA524116, AI807732, AA992422, AA308853, AI610539, AA653510, AI804538, AA653438, AI986456, AI500648, AW189915, AA708759, AI679802, AI176706, H81609, AA740782, R72705, AI125930, AA555116, AW173659, AA432282, AW363351, AW103616, AA176724, F37314, AA682225, AI208567, AA826560, AA308851, AI134257, AW770415, AI249986, AA346286, AI923040, AA428627, AW407257, R49324, AI022174, AA226672, AA386226, AA954017, AW316887, AA548185, AA430516, AI173054, AI378920, AA467744, C14715, AA324842, W46618, AW291665, H22297, AI952445, AA308852, Z38953, F27547, AI624769, AI688767, AI254198, H29271, T30886, AI984007, H58044, AA102260, H19121, AA174099, T64974, AI190377, U55980, AA313043, AA652594, T33556, AA588454, AA079766, T30885, AI289751, AA079662, AW386889, AA609230, N67209, AW130206, W81067, AA444161, AA053081, AI690803, AI080131, AA573007, F10793, T32048, AW275180, D54061, AI473281, AA026011, H60333, T39333, AA745903, T19224, AI908040, AW294394, AW367021, M78639, AI355669, AW298166, AW361250, R84893, AI908037, AA459844, H40828, D54504, AI908021, AI908008, AI699848, H81610, H66200, AA403067, T25950, T81632, T19550, R98063, D54002, AI925734, AI906757, R93365, AI250621, Z30252, AI909826, AI909824, AW369644, T04849, H22261, AW376366, R32768, AI908081, AA429079, AW403033, AA160093, R90873, AA326736, AL041263, D58524, AW389303, AL043881, AL046604, C04059, AA531508, AA128960, AL046006, T19252, AI907876, AW392242, AL042624, AW403808, AL045474, AL041886, H01570, AI363803, R78804, AL041872, T31059, H19603, AA228109, H24164, H12675, C15988, AI940088, AW381410, H44250, N48104, AA393629, AW367781, R28128, R23869, T58288, R72979, AA984062, AW374404, AW374385, AA242748, N44862, R88953, AI557267, H90121, AA323985, T64231, R90783, AA319598, H02821, AA410901, AL042059, C15711, R73195, R76234, AI829391, R98306, AW389265, AA305347, AW376369, AA295312, AI907282, AA309588, AA333617, W27031, H02380, AA320201, AI909838, AI909848,

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HUJDJ03	6987	922441	1 - 658	15 - 672	AA569288, and AA569185.
HUJDE05	6988	967231	1 - 555	15 - 569	AA393987, AW249982, AI377213, AI440471, AA668868, AI423208, AA922498, N49855, AA744680, AA232187, AA741266, AA830850, AA523735, AI023220, AA551426, AA130096, AI273697, AI470085, AI199436, AI889460, AI144114, AA806441, AI215922, AI028484, AI281030, AI735186, AI224934, AA809356, AI261472, AA809458, AA588859, AI524208, AA398075, F26431, AA826865, AI721076, H69575, H95065, AA988255, AI984011, AA368844, AI378424, AI936240, AI186572, AI963211, AA809442, W52780, AA744793, AA827659, H41598, AI493433, AI266572, N36218, AA130095, H62017, AA303699, AA261941, AA835915, F28374, AA602990, F26160, AI371682, AA872643, H62016, H84745, AA877236, N54430, AA574343, W52484, AA513394, AA559062, AI202007, N80053, AA010201, AA235462, AA292526, AI222768, AW246245, AI133447, H84833, H69596, and AB005815.
HUJCN12	6989	969331	1 - 545	15 - 559	C18813.
HUJBQ04	6990	926196	1 - 318	15 - 332	AW392670, AL119355, AL042984, U46349, AL119341, AL119319, AL119457, AL119324, AW372827, AL119483, AL119443, Z99396, AW384394, U46351, AW363220, AL119497, AL119484, AL119363, AL119391, U46350, U46347, U46341, AL119444, AL134536, AL037205, AL134538, AL042433, AL119439, AL119522, AL119396, U46346, AL119335, AL134902, AL119401, AI142131, AL043019, AL134527, U46345, AL134920, AL119418, AL119399, AL119496, AL134525, AL043033, AL042614, AL043029, AL043011, AL042544, AL042450, AL119464, AL042542, AL042965, AL042975, AL042551, AL043003, AL034429, AB026436, AR060234, AR054110, AR066494, A81671, and AR069079.
HUJBP01	6991	914512	1 - 459	15 - 473	Z66011, Z66010, Z55354, and Z55353.
HTYSK94	6992	501001	1 - 449	15 - 463	
HTYSK65	6993	500999	1 - 338	15 - 352	
HTYSK23	6994	575458	1 - 338	15 - 352	AI866971, AA420546, AA644090, AI087040, AW304580, AA825827, AA584527, T63954, AI270177, AA487226, H86725, AW022934, AI192440, AI669421, AA847499, AI124798, AA225890, AA836552, AL008718, AC005932, AL022336, AF207550, AL035587, L78833, AC004883, AC002565, AC005512, AC002115, AC005102, AC005829, AL021391, AP000103, Z93930, AC004491, AC004821, AC007055, AL035462, AC005519, AC006137, U95742, AC004817, U91326, AC006509, AC004659, AL049776, AL008734, AP000088, AL035423, AC007216, AC005914, AC002544, AL031983, Z84469, AC004859, AC003041, AC002126, AP000032, AC006552, AC000025, AL031602, AF134726, AC005527, AL109839, AC007731, AC008101, AC005500, AL035684, AL133448, AC004895, AL049872, AC004526, AL031295, Z98884, AC005071, AC006262, AP000045, AC005844, AF053356, AC004531, AL080317, AC002073, Z94056, AL049869, AC007387, AC005484, AL035420, AC003101, AC007011, AL135744, U91318, AL049766, AC007298, AC004815, AC016027, AC004967, AP000501,

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HTYND11	6995	965061	1 - 354	15 - 368	H63287, H83779, AA479904, AI301403, H72739, H03721, W58699, W80428, W69319, N75444, N75831, AA931805, AA976567, R69416, H20193, H27894, AA524259, AA776787, AI093933, N89605, AA976789, AA417821, AI077948, AA568684, W58105, AI184042, AA471035, AA159198, AI184456, AW000778, AI298398, AI207043, AI298093, AA976989, AI160353, AI198251, AI268758, AI352347, AI281960, AI268851, AI858974, AI125797, AI042070, AI272028, AI336185, AI125808, AI394538, AI140335, AI191334, AI356687, AA931904, AI279283, AI768190, AI279567, AI086220, AI191106, AI184383, and AA057072.
HTYNC04	6996	926906	1 - 379	15 - 393	AW009081, AA724726, and C01435.
HTYAA83	6997	537277	1 - 411	15 - 425	AA303105, AA584859, AA989182, AI811345, AA826320, AI523074, AI709307, AA634252, AA828053, AC006211, AF196969, AC004491, AC005037, AI109627, AC012384, AC002350, AL049776, AL031432, AL034420, AC004966, AC002558, AL121603, AC005899, AC005412, AP000692, AC005914, AJ003147, AC005512, AC005274, AL035455, Z98051, AC009516, AC005632, AC004477, AC004851, AC002404, AC003684, AC007055, AI251973, AC007308, Z86090, AL022316, AL024507, AF001548, AL121655, AL049694, AL121825, AF053356, AC006538, AC009247, Z93023, Z93017, AC006312, AC005484, AC005932, AC004216, AC016830, AC007842, AC002302, AC004983, AF001549, AI139054, AL022476, AC005562, AC003010, AC007371, AB001523, AL033527, L47234, U62317, Z84487, AL022322, AL133448, AC004895, AC005102, AL049779, AC004033, AL031311, AP000553, AC006111, AL035659, and AC003042.
HTXSV06	6998	933377	1 - 523	15 - 537	AA570407, and U91323.
HTXSH08	6999	957886	1 - 880	15 - 894	AA411663, AI051223, AI051723, AA411664, AL043343, AI084824, AA704698, T99707, T99099,

HTXSC11	7000	96536	1 - 403	15 - 417	and AA091981.
HTXSA04	7001	926338	1 - 458	15 - 472	AA635858, AI420572, and AC000353.
HTXRS08	7002	957919	1 - 504	15 - 518	AA683094, and AC002299.
HTXRA02	7003	918089	1 - 352	15 - 366	AA937176, T97020, AI923659, AW089216, and H46012.
HTXQS11	7004	965084	1 - 617	15 - 631	AI932351, AI168608, and AW081230.
HTXQO07	7005	952064	1 - 342	15 - 356	AI038370, and AI954900.
HTXQM71	7006	869147	1 - 660	15 - 674	AA731476.
HTXQM07	7007	952067	1 - 431	15 - 445	AI695376.
HTXPX72	7008	916162	1 - 965	15 - 979	AA251181, AI761000, AI128484, AI276232, AA251078, R11531, AA721210, R10456, AI364695, AW166309, and AA832036.
HTXPV03	7009	922905	1 - 652	15 - 666	AA001407, and AI022312.
HTXOR95	7010	869249	1 - 578	15 - 592	T81624.
HTXOO15	7011	869261	1 - 435	15 - 449	AA772570, and AA229433.
HTXOO12	7012	872368	1 - 383	15 - 397	AI439548, AI824398, AI524088, AA809903, AA418732, AA625848, AA491295, AI399785, AA879121, AA738446, AA776396, AA463264, Z39342, AW246459, H19238, AA872635, AA418786, AA995381, AA463616, AI613441, AI192269, AA417678, U87803, and AF140507.
HTXOK51	7013	869265	1 - 513	15 - 527	AA164895, AI216978, AA470578, AI151261, AB023165, AI023876, AC004859, AC006111, AC007684, AC002546, AL080317, AL121756, AL031775, AC004913, Z82178, AC007308, AC002470, AC000097, AC006547, and AC000075.
HTXNJ60	7014	869299	1 - 722	15 - 736	AA255981, and AC005229.
HTXNG04	7015	926992	1 - 886	15 - 900	AA700155, AI241528, R92115, AI051224, AI248652, AI248349, H80550, H80606, AL045388, AI680997, AI560952, W78724, and AL031708.
HTXNF11	7016	869300	1 - 592	15 - 606	H90484.
HTXNA19	7017	953848	1 - 884	15 - 898	AA872066, AI700737, H13313, T51880, AI458617, and R41292.
HTXNZ01	7018	915250	1 - 304	15 - 318	AA078115.
HTXMTU37	7019	948611	1 - 702	15 - 716	H74136, H54178, H54603, AA526630, AW197983, AI986083, F25083, AA548968, AA492584, AA706631, AA192278, AA056619, AA487726, R32162, AA457685, AA613609, AA640797, AA481760, AA113327, AA282951, AI370337, F27234, F36360, AA467961, R31574, AA583381, AA191139, F27108, AA302943, AA082567, AW245331, AI300597, AL048296, AA113757, AI653465, AW409990, AA565957, AA854403, T74600, AI073724, AI417496, AI738741, AA936734, AA233462, AA936783, AA641336, AA838660, AI283329, AA182577, AI862213, AA111897, AI280500, R59728, AA653228, AA614864, AI421783, AW301712, AA101265, AI755227, AI860414, W31892, AW246579, AA074086, AA158023, AI865375, R61358, AI568260, AI798292, AI419390, AA550837, AI609107, AI859368, AA373304, AI431442, AA745841, AI475297, AA419230, AW083918, AI830186, AW246558, AA164946, AI185856,

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HTXMR30	7020	869312	1 - 663	15 - 677	AI138731, and AI149649.
HTXMJ82	7021	841875	1 - 709	15 - 723	AW245527, AA452288, AA134389, R02507, AA160583, W20079, W15650, R88492, AA191171, AA305146, AA312380, AA353989, AA356238, Z45454, R10259, T53506, R88474, AA353467, AW401924, AA065025, AA133146, AA321117, T39247, AA321753, AA352107, AA359404, AA115720, AA356308, AA329808, T97388, AI632793, AA341639, R21692, T81231, AA425167, R84510, AI189655, R47188, AA628011, AF100761, AL050361, AC006049, AP000512, and AB023049.
HTXMC72	7022	875290	1 - 430	15 - 444	H72109, and AC004686.
HTXLS08	7023	958357	1 - 1138	15 - 1152	AI084218, AI797791, AI439030, AI479025, AI436557, AI027473, AI440506, AI873534, AI243660, AA744809, AI218347, AA766305, AA938672, AA765757, AI475702, AA279525, AA806852, AA805971, AI669506, AA772543, AI364913, AA281541, AA768800, AI701372, AI382260, AA765148, AA627572, AI243662, and AA016005.
HTXLN70	7024	756630	1 - 649	15 - 663	R94410.
HTXL110	7025	963602	1 - 629	15 - 643	AI638848.
HTXKP30	7026	487401	1 - 486	15 - 500	
HTXKN65	7027	869345	1 - 390	15 - 404	AA613878.
HTXKM37	7028	869347	1 - 479	15 - 493	AA903764, AI859744, AA578066, AI800343, AA486680, AL044339, AW265279, AA630845, F31066, F37059, AI679759, AA338238, AW242031, AA573000, AA568204, AA570740, AA483606, AI613389, AI302350, N66927, AI884404, AA804694, AW022796, AA338237,

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HTXKM24	7029	677101	1 - 271	15 - 285	R85618, AW451329, AI342905, AL042764, T12565, and AC006241.
HTXKK96	7030	796330	1 - 501	15 - 515	AA152462, and AA152463.
HTXKK31	7031	697838	1 - 561	15 - 575	AL043095, AA227966, AA227802, N79681, AI688963, AI798234, AA308708, AA643902, W89152, AA767864, AI111171, AA309764, N55560, AI914747, AL049646, AC005822, AC005988, AL035416, AC004943, AP000555, Z77249, AJ011930, AL031584, AL132777, AC004616, AC004079, AL024498, AL049843, AC006478, AJ006995, AC005386, AC002524, AL049911, Z84487, AL049709, AC005011, AL031985, AC004408, and AL049874.
HTXKF02	7032	919683	1 - 643	15 - 657	R72784, H45937, AI682220, U51280, and AC001228.
HTXKC64	7033	746471	1 - 605	15 - 619	H73594, R94521, H54422, H65481, AA677973, AI032897, AA005280, AA005196, AA453866, N77694, and AC003973.
HTXJX77	7034	870446	1 - 592	15 - 606	AA149774.
HTXJR61	7035	741746	1 - 928	15 - 942	AI912179, AA706272, AI627711, AI753424, AW236776, R61531, AI537736, R48982, R18061,

HTXJP17	7036	663123	1 - 455	15 - 469	AA024568, AA449473, and D80433.
HTXJO80	7037	871594	1 - 440	15 - 454	AA026098, AA025198, AA025117, AA789331, AI025891, and AW086422.
HTXJO78	7038	773508	1 - 269	15 - 283	H71834, W90335, AI660357, AW204190, AA490598, AI983576, T83715, R00174, and T77359.
HTXJN39	7039	566290	1 - 321	15 - 335	N56725.
HTXJK20	7040	423763	1 - 490	15 - 504	AA775097.
HTXJJC08	7041	957757	1 - 725	15 - 739	AA191116, and AC004584.
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HTXJA76	7042	767696	1 - 428	15 - 442	AA489147.
HTXJA32	7043	699152	1 - 548	15 - 562	T63847, and T63647.
HTXGH41	7044	712566	1 - 241	15 - 255	W86936, and AC004499.
HTXGE85	7045	783418	1 - 448	15 - 462	R73235, H26695, A1820688, R48685, H29757, R83605, H27918, and AB020630.
HTXFR89	7046	790276	1 - 399	15 - 413	W25596, A1815642, AA417302, AA100476, N27984, AA314322, AA045597, AA661773, AA649285, AA306867, D82429, AA310276, R89903, AA130829, R83064, AA298770, H81350, AW380232, AA297193, W22908, AW406948, AA344066, AA100050, N51146, AA370966, AA382073, W38488, T85780, AW377665, AA314221, AA334159, AL122042, and AC007842.
HTXFN90	7047	537392	1 - 361	15 - 375	
HTXFN73	7048	824543	1 - 289	15 - 303	
HTXFN63	7049	745316	1 - 295	15 - 309	AI446475, AA0808264, AI681962, AA654013, AA766987, T54146, AA069743, AL020997, AL021937, AL139054, AL031388, AL050306, AC006315, AL022163, AC004531, M85145, AL034395, and AL031276.
HTXFN53	7050	537391	1 - 425	15 - 439	

HTXFN23	7051	537393	1 - 193	15 - 207	AA649055, AA676720, and Z68284.
HTXPH43	7052	537397	1 - 337	15 - 351	AW236547, W70044, W70260, and AC008545.
HTXPH20	7053	537398	1 - 204	15 - 218	
HTXFG29	7054	689833	1 - 261	15 - 275	
HTXFF96	7055	796309	1 - 623	15 - 637	
HTXFF93	7056	934438	1 - 553	15 - 567	T81719.
HTXEY18	7057	869406	1 - 403	15 - 417	
HTXEX83	7058	780277	1 - 340	15 - 354	R10220, AW167240, AW043624, AA290774, A1741670, and AC002519.
HTXEE90	7059	789161	1 - 441	15 - 455	N67634, AW135346, A1634553, A1830652, AW190088, A1638854, A1139333, AL040317, N35344, A1215747, A1807577, A1758230, AA580929, AA808566, AA218821, and AL022393.
HTXEC96	7060	796561	1 - 316	15 - 330	R11584.
HTXEA45	7061	723401	1 - 492	15 - 506	AA055878, and A1733756.
HTXDZ56	7062	733641	1 - 411	15 - 425	H54720, and H68884.
HTXDW32	7063	699559	1 - 1083	15 - 1097	AA203535, N69313, AW104800, A1345794, A1345704, AA465689, AC004554, AC002470, AC004499, AC005037, AC003666, AC005527, AL034451, AC005529, AC006536, AC004782, AC002288, AC005694, AC005921, U91323, AC005899, AC006479, Z81369, A1136295, Z98051, AL035423, AL079295, AC002365, AC004983, and AP000036.
HTXDJ77	7064	772473	1 - 285	15 - 299	W07454, A1934203, AB000878, AP000506, AB000882, AC004184, AC004173, AC004170, AB023058, AP000521, AL022723, AF055066, AC006048, AP000509, and D84394.
HTXDD24	7065	888612	1 - 416	15 - 430	
HTXCW50	7066	724650	1 - 713	15 - 727	AA463609, A1167145, AW149126, AW301636, A1918887, AW004869, AA701246, A1659509, AA463256, A1918865, and A1202534.
HTXCS84	7067	783262	1 - 69	15 - 83	
HTXBT88	7068	529663	1 - 366	15 - 380	
HTXAW03	7069	921906	1 - 551	15 - 565	A1497655, A1128840, R60767, A1345232, AW072868, A1933264, AW295282, A1673318, N40760, A1340591, A1583811, AW268087, AW086332, A1284621, AW269077, AW301308, A1792895, A1312160, A1311031, and AW268945.
HTXAK96	7070	796612	1 - 554	15 - 568	R96938, and AB020866.
HTXAJ34	7071	707050	1 - 393	15 - 407	R23649.
HTWLI77	7072	839177	1 - 533	15 - 547	
HTWLF58	7073	869478	1 - 540	15 - 554	AA917800, AA284120, A1354369, AA551548, AA805901, A1459866, A1439676, A1889579, AA504892, AL038527, AA226260, AA629939, AA485553, AA904211, AW189853, A1201668, A1018726, A1133083, A1734172, A1732786, A1791971, A1732671, H30568, A1366555, H86579, H30595, AA434078, AA077247, AA018923, AA012829, A1654658, AA678616, AA831801, AW089016, AL036549, AA832016, AA302966, AA666272, T05617, AA483173, AW317023, A1358871, AA515745, A1911659, A1283938, AA077619, A1354677, AA036655, A1613419,

AW105346, AA449293, AW008184, AA075807, AA564753, R83585, AI246061, AA831997, AI300818, AI310992, AI583259, AI135654, AI054090, AI037006, W27084, AW078821, Z98473, AW390284, AI347665, AA644223, AI249853, AA581498, AI284543, AI472736, AI254770, AA774119, AI251944, AI251034, AI251203, AI251284, AW440568, AW019964, AA653057, AA678932, AI250552, AI267356, AW081610, AI039930, AW162303, N67313, M78021, AW162047, AA339592, AA381194, AI254508, AA501617, AI889995, AI251696, AW161786, AL041375, AI139968, AA827383, N73203, AA126814, AA508418, AI860535, AI871691, AI830490, AA340003, AW341882, AI816130, AA741301, AI521679, AW128881, AI590404, AW238495, AI191456, N23490, AW439663, T79993, AW263847, AA579399, AW160527, AA189062, AW162138, AW156882, AI274692, AI815940, AA482323, AW084840, AW408767, AA744449, AA744465, AA745470, AA019043, T10218, AI679759, AI973173, AA493852, AI114645, T34066, AI251241, AA362052, F18533, AW262466, W04322, AI635475, AI929298, AI929825, AI003172, AL042753, AI561043, T60940, N57057, R02063, T40308, AW157180, AA020882, T07285, W60516, AA832124, AA192293, AI744937, AW082076, AA662614, H64905, AA828911, AI017733, AA339432, AW316599, AI114494, H41462, N88923, AA736713, AA780648, T94714, R81455, AA360609, AA757646, AA460880, AW028834, AW074398, AA743884, AA167179, AI761566, AA373861, AA988600, T48770, AA508070, AI445373, AA810317, AA424249, AI925812, H59797, AI355559, AA429942, AI751049, AI891075, AI364760, H64884, AW079737, AP000221, AL049780, AC007055, AC004671, AC004817, AL020997, AC008041, AC005332, AC006088, AC005841, AC005832, AF048729, AP000084, Z94802, AP000292, AF039905, AP000111, AP000043, AL035252, AC002090, AC002331, Z83820, AC007421, Z84467, Z83826, AP001049, AP000694, AC002544, AC004409, AC002407, AC004821, AF003529, AP000355, AC007066, AL009179, AL049743, AC007934, AC007240, AC006511, Z73358, AC005004, AC004216, AI022320, Z69653, AC005668, AC007528, AB023048, AC002302, AC008372, AC000111, AC004770, AC004228, AL109758, AC003692, Z92546, AL034369, AC000003, AP000353, AC003667, AC005618, AL031651, AL031675, AL022337, AP000691, AC000118, AC004815, AC005923, AC003982, AC004253, Z92545, AL022394, AC007028, AC006581, AF134726, AC005328, AC000092, AC005250, AL049570, AL031729, AL117344, AC006950, AP000252, AL109956, AC005519, AP001052, AC007376, AL008636, AL034549, AC005327, AC006277, AL031007, AL022163, AC002468, AC006543, AC007387, AC006544, AP000511, AL031284, AC004989, AC004938, AL050321, AL080286, Z98050, AC005180, AB020720, AC006537, AC005597, AC004769, AC006255, AL096769, AC004662, AC003070, Z83844, AL033527, AC005089, AC005071, AC002350, U73629, AC005530, AF045555, Z99127, AL031315, AC006146, AL049742, AL049760, AC004069, AL031584, AC003013, AC005081, AC005209, AC006296, AC004673, AL109963, Z68285, AF024534, AC005578, AC006561, AC005355, AC004973, AC005800, AC005300, AC004910, AC002115, AC008116, AC004757, AL031282, AL031683, Z97056, AL031673, AC005086,

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HTWLD61	7074	741610	1 - 204	15 - 218	
HTWLD10	7075	964195	1 - 367	15 - 381	AI942248.
HTWLC51	7076	725533	1 - 279	15 - 293	R05388, and AA832101.
HTWKZ86	7077	785318	1 - 356	15 - 370	AI922217, AA736485, AL048914, AA805014, AA053870, AA664879, AA570557, AI421075, AI075935, N66944, H52397, AC005519, Z83819, AC005483, AC006948, AC002549, AC005317, AC005585, AC004106, Z84469, AF017257, AC005095, AC007055, AF196779, AL109865, AC005015, AJ011930, AC004686, AC003010, AC005832, AC004765, AC005859, Z99128, AC007227, AF196969, AC006362, AL031281, AL049691, Z93017, AC004997, AC002492, AF047825, AC006084, AC005081, AC009464, AL133445, AC004820, AF053356, AP000135, D26607, AC004526, AC006960, AL024509, AP000031, AC005495, L77570, AJ251973, AC005529, AC004382, AC006205, AC005874, AF134471, AC000357, AL034420, AC004882, AP001040, AF207550, AC009263, AC003108, AL034429, AC012384, AC004150, Z98742, AC002312, AC005189, AL050307, AC004996, AC005899, AL035659, AL049745, AL079342, AC004492, Z97054, and Z84722.
HTWKZ46	7078	718872	1 - 352	15 - 366	AC006207.
HTWKZ35	7079	494833	1 - 115	15 - 129	
HTWKZ28	7080	686254	1 - 427	15 - 441	F23327, AI962030, AA425924, AA644090, AA833896, AA526625, AA526326, AA833875, AL046519, AC004778, AC004491, AL021918, AC004890, AF003626, AC008154, AL022162, AC007011, AC005562, AL009181, AL021940, AC007993, AL049611, AL021939, AC002128, AC007298, AP000557, AL008719, AL049631, AL049643, AF200465, AC005874, AF134471, AC003029, AC006236, AC006080, AP000695, AC004637, Z98949, AC005722, AC004169, AC002369, AL096701, AL035089, AC002365, AC005823, Z82195, AC005538, AC005081, AC003106, AP000008, AC005015, AC007488, AP000704, AP000967, Z81369, AL079295, AP000030, AP000212, AP000134, AC004911, AC007055, AC005410, AC006257, AC005871, AC005972, AC006111, AC005914, AC004682, Z98941, AC007263, AB017602, AC004686,

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HTWKZ27	7081	812689	1 - 365	15 - 379	AA515723, AI185394, AA484892, AA480486, AA469230, AA654482, AW265688, AI049701, AA846923, AW390284, T08386, AA768179, AA229988, AI929796, T94072, AI635440, AW162750, AA601212, H62923, AA502110, AA605266, T03576, AA573000, AL137946, AI472736, AW419389, F31811, AI915081, H24957, AA757621, AW440568, AI369076, AA678932, F31867, AW068580, AA632556, AW081610, AA720582, AA429481, AW392414, AA515733, H91844, AA358086, AI889995, T50490, AI624379, F23338, AI471455, R70883, AI283938, W63553, AI223968, AI687343, AI432298, F00533, AI564301, AI347665, AI280535, AW150781, AI648514, AA614304, AI270177, AA524800, AW381823, R70884, AA302934, R94436, AW151247, AA832016, AA831801, AA808725, AA687542, AI355103, AA347927, AI053673, AA640252, AA228979, AA229823, AA702618, AI249525, Z25918, AA565319, AA515138, AI865196, AA507675, AA516320, AA503142, AW083934, AI590442, AI281818, AA225392, AI500668, AW407632, AW088130, F00688, AA610433, H67064, R34070, AA225754, AW166920, AA630476, AI926102, AA678616, AI762302, C06028, AI799421, H96146, F34506, AA225100, F09355, AA678950, AA481887, AI340151, F04475, AA632845, AL135654, AW008184, AI246996, AA582746, T49933, AA347930, AA568314, AA552724, AI679442, AA550959, AI679952, AI368732, T02827, H86579, AI783911, AI619987, AW078821, R80563, AA653291, AA469327, AI859438, AI583532, AI375294, AI142551, AA773042, AA356376, AA846482, AA665532, AI340858, AC003070, AL031591, AC005031, M87889, AL009181, AC004230, AL109952, AL022476, AC004999, AP000343, U80017, AC005231, AC006077, AL021391, AC004543, AF109907, AC004491, AC007099, AF152363, AC006449, AC005529, AC003101, AC005821, AC004752, AP000493, AC005209, AL035071, AC002565, AC004099, AC007686, AC007437, AC004796, AC004882, AF134726, AC004883, AL021977, AC006515, AC003104, AC004858, AC002549, AC008116, AP000355, AC005081, AL139054, Z98742, AC002542, AC006023, AP000201, AP000556, AC005663, AP000704, AC005921, AL117351, AC002082, AP000097, AL033392, AL132712, AC005940, AC005800, AP000301, AL021453, AL034420, AC004106, AJ003147, AL049839, AC004125, AC005409, AL049843, AL049589, AP000503, AL022328, AC005971, A51133, A76958, AC002559, AL122020, AF024533, Z98884, AC002288, AC004760, AC005866, Z98048, AP001051, AC005291, AC020663, AL078624, AL008718, AC004962, AJ246003, AC005071, AC005632, AL121757, AL035685, AL049694,

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HTWKZ15	7082	659934	1 - 355	15 - 369	<p>AI754257, AA084439, AW410409, AA642809, AW277174, AW327852, AW270768, AI291037, AI754064, AA579398, AI797998, AA535216, AA129746, AA904211, AA846923, AA618263, AI090377, AW238712, AI634187, AA809125, AI281818, AI754170, AA127222, AI039539, AW021951, AI521525, AI283312, AI889995, AA622801, AI479148, AW238341, AA7:4110, AI053784, AA831426, AA496369, AL035977, AW151247, W60612, AA679794, AA579130, AA577706, AA410788, AW151541, AW069412, AI311779, AI056177, AI457313, AL134278, AI809818, AW069227, N40092, AI207728, AW020150, AA600202, AA602906, AI745116, AC006080, AC004805, AL022326, AC006211, AL133246, AC009241, AL031643, AL049838, AC006965, AC018633, AL035086, AF111168, AL022336, AL117354, AC004382, AC005678, AC006511, AC002088, AL078581, AC006077, AL031276, AP000493, AP001053, AL022318, AL132826, AL050338, AL049832, AL023581, AC007652, AL035688, AL132777, AC008282, AC006026, AP000403, AC004885, AC005588, AC005036, AP000344, AC007656, AL109985, AC005828, AL031287, AL031848, AL122126, AC008119, AC004028, AP000043, AC007015, AC002430, AC004158, Z95114, AC005225, AL034376, AL133396, AC002369, AC007384, AL022717, AC004478, AL109653, AL049650, U66722, AC006006, AC004910, AF047825, AF152363, AC006160, AC000094, AL132712, AL136504, AL122020, AP000532, AC004992, AC005157, AC006112, AC005969, AC004042, AC000085, AL035412, AC006257, AL121694,</p>

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HTWK141	7083	712142	1 - 437	15 - 451	AA281719, AA286940, AW271848, AA743292, R39726, and AA262177.
HTWK141	7084	703863	1 - 522	15 - 536	N76304, and N76291.
HTWK141	7085	952841	1 - 307	15 - 321	AI000527.
HTWK141	7086	708338	1 - 458	15 - 472	AW118886, AI741663, AI435117, R70887, AI199990, AI168416, AA285071, AI361897, AI215545, R70888, AI361901, and AF195821.
HTWK141	7087	790185	1 - 193	15 - 207	AI302448, N92646, AW134987, AI950033, AA659232, L29349, X17648, A28928, L29348, U93096, S48539, AC005081, AC005399, AC002418, AP000511, AL049713, Z83840, AC006013, AC004386, AC010722, AC005406, AL079333, AC005899, AL022323, Z47066, and AL049872.
HTWK141	7088	805706	1 - 449	15 - 463	AL138227, AL138236, H80610, AA133578, R12953, Z43397, H10281, AA486037, AW170131, AA878478, N91220, H82000, AA488655, AA456874, AI818140, AI692200, AA932253, H80857, AI091568, AI768111, AA836363, AW274397, and AA829456.
HTWK141	7089	911448	1 - 1533	15 - 1547	AI693688, AI089291, AI492178, AI239859, AA651942, AI057017, AA932955, AW205176, AA806301, AI911826, AW205734, AI439640, AI379127, AI493662, AW207182, AW270056, AA825776, AA291010, AI239585, AA235097, AA256500, AA291012, AA310652, H58752, AA824566, AW340433, D31147, AA256924, AA911804, D31268, D31363, AI243382, AA578487, AA504191, and AA504190.

HTWJA79	7090	559919	1 - 214	15 - 228	AA664604, AW069227, AA845659, T41284, AI932600, AI634187, N23913, AA483599, AW083934, AI457313, AA613257, H42271, AA595547, AA503298, AA682912, AC002288, AC007999, AL022318, AC004797, D00591, AF207550, AP000553, AL031577, AC003108, AC005500, AC004033, AL031767, AL023879, AC005071, Z95116, AC005823, Z95114, AC016025, AC005988, AC006211, AC004805, AL121603, Z84480, AC002369, AC003071, AL022396, AC005874, AF134471, AL137100, Z93930, AC005632, AL031846, AB000882, AL049694, AP000555, AL049869, AL050402, AC002470, AL133246, AL035423, AP000469, AP000692, AL049776, AL008732, Z83826, Z93241, AC007731, AC002425, AP000210, AP000132, AC004796, AL031281, AL031542, AC007681, AC005899, AL021154, AL009181, AC009263, AC004752, AF107885, Z97630, AC000353, AC009516, AL080277, AL031120, AF128525, AC005544, AC007785, Y14768, AP000502, AC010077, AC003041, AC004408, AL049780, AL035587, AC007225, AL008715, AL035413, AC005399, AC007227, AC005089, U91326, AC005484, AC002300, AC006285, AL022722, AC005740, AL021155, AL035089, AF134726, AL079295, AL031676, AC007099, AC002476, AC005304, AC007676, AC004057, AC007510, AP000505, AC006486, AL023575, AC005839, AL049589, AC003109, AL117694, AC005004, AL135960, AJ131016, AC004841, AL132992, AC004848, AC009509, AL033527, AC008984, AC004623, AL080242, AL049697, and AC006392.
HTWFRQ19	7091	586124	1 - 225	15 - 239	AC006208.
HTWFM90	7092	582285	1 - 368	15 - 382	
HTWFM89	7093	786805	1 - 369	15 - 383	
HTWFM79	7094	841983	1 - 331	15 - 345	AA744539.
HTWFM71	7095	760303	1 - 304	15 - 318	AA501794, AA506744, AI783581, AA743445, N23896, AA586661, AA526426, AW250905, AW150524, AA679532, AL041373, AA535216, AL041526, AA207033, AA847702, T71535, AA352578, AL109612, AL139054, AL079342, AC005084, AC006449, AC002091, Z98749, U91323, AL117354, Z82975, AC004913, AC007160, AC007842, AC004999, AC007075, AC005971, AC004859, Z84466, AC006111, AL135744, AC002314, AC005288, AL049758, AL049843, U07562, AC006141, AD000092, AC004662, AC007253, AL109952, Z84483, AC005520, AC005531, AL110502, AC005535, AC005377, Z85986, U85195, AL049539, AC005207, AC007358, AL031291, AC006965, AC009247, AL078639, AL049569, M63543, AL031229, AF111167, AC002472, Z97053, AC005031, AL121825, AL121652, AC006511, AC005387, Z95114, AL035079, AC006211, AF029308, AC002312, AC004808, AE000658, AC000353, AC005057, AC005730, AC004019, AF207550, AR036572, U91328, AC007536, U50871, Z99716, I08101, I08711, M24461, Z84469, Z85987, AP000502, AF064862, AL049759, AL096701, AC005225, M63544, AC005071, AF124523, AF205588, AC005632, AF064865, AF019413, AC006262, AL049636, AC002115, AL024507, Y18000, Z97183, AC005411, AL035427, AC006006, Z84480, AC005696, AP000023, AC002468, AC002980, AC002426, AL034421, AB023051, AC005409, AL031659, AL021154, AC005280, AL022318, AC006530,

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HTWFM48	7096	721587	1 - 351	15 - 365	
HTWFJ71	7097	869491	1 - 596	15 - 610	
					AL1357460, H64908, H64907, H86105, H86095, AA586433, AC004884, AL049589, AC005539, AP000500, AL035458, AL109758, AL133312, AC005859, AC002449, AC004382, AL135960, AJ131016, AC005921, AC009363, AC006205, AC005288, AP000194, AL031431, AC005548, AF000355, AC007055, Z85987, AC006950, and AL008718.
HTWPH75	7098	767251	1 - 485	15 - 499	H78965.
HTWPH73	7099	761686	1 - 710	15 - 724	AA417751, and AW376554.
HTWPH42	7100	713667	1 - 626	15 - 640	T86260, and AA001345.
HTWFG29	7101	800193	1 - 114	15 - 128	AL19208, AL697463, and AL050379.
HTWFD63	7102	745010	1 - 499	15 - 513	T77812, T77718, and AA009632.
HTWEY89	7103	864553	1 - 708	15 - 722	N36996, R36291, AW368228, Z42166, AL117446, AF084520, AF111162, and AF023451.
HTWEO90	7104	788859	1 - 705	15 - 719	AA059476, AA017611, AA056081, AA001373, AA017554, AA053344, AA001463, AA018178, and AA054441.
HTWEJ74	7105	765512	1 - 423	15 - 437	N64473, and AL379859.
HTWEH76	7106	876853	1 - 753	15 - 767	AA155698, AA307060, AA314164, AW247756, AA378299, AA352789, AA339982, AA205909, AA400664, AA455322, AA356865, and AA205544.
HTWEC75	7107	767264	1 - 849	15 - 863	AW003230, W16522, AW003274, AL192577, H37762, AA017517, H86814, H38845, AA813026, and N79989.
HTWDR91	7108	869526	1 - 433	15 - 447	AA522642, AA502866, AW062724, AL133297, AW084466, AA568754, AL045808, AL046156, AA552856, AA552843, AL270117, AL031721, AC004686, AC005231, AC007536, AC005914, AL133445, AL021878, AC005066, AC003026, AL021154, AC004386, AL049761, AC004504, AC002467, AL135960, AJ131016, AC007664, Z99497, AC006143, AC002350, AC006211, AC005295, AC005520, AC005525, AL049872, AF205588, AF111169, AC006538, AC005013, AP001053, AC004104, AL139054, AC002472, AC002349, AC005387, AC002347, AC009516, AC004066, AL049871, AC004087, AC005261, AC006130, AC004966, AC002492, AL033521, AC006257, U91321, AC007229, AC007792, AC004049, Z86090, AC002301, AC007057, AC007182, AL079342, AC003684, AL109627, AC007021, AL022316, AC006111, AC007387, U95739, AC004953, AC004804, AC004554, AC010206, AL008722, AC004448, AL133163, AC002418, AC004167, AL050333, AC003070, AC005399, AC002115, U66059, AF064861, AC001228, AC005251, AC005256, AL121655, AC007688, AC006115, AC008040, AC005913,

					Z99716, AC005041, AC006480, AC006079, AF200465, AC004895, AL031650, AC002558, AP000346, AF111168, AC005220, U85195, AC007735, AC004526, AC004797, AE000658, AL049760, AL034549, AL022322, AL034373, AC005859, L78810, AL117354, AL034417, AL035422, AC005088, AL133289, AP000553, AC002468, AC007204, Z93241, AL133244, AC004408, AC002550, AL031848, Z93023, AC003002, AC004453, AL022165, AL109628, AC005531, AL031588, AC006273, AC005242, AC002082, AL034423, AC005527, Z97053, AC009498, AC004002, AL035413, AC007240, AC005940, AC002310, AL022329, AF134726, Z84487, AL035086, AC007114, AC008125, AC006316, AL022302, AF190465, AC007014, AC004687, AC007277, AP000493, AC007043, AC007686, AC006544, Z98257, AC002119, AC004000, AL049569, AL078603, AL132994, U02531, AC007263, AC007050, AC000353, AL022476, AC005529, AP000350, AC006537, AC008372, AC005696, and AC004027.
HTWDO06	7109	935644	1 - 448	15 - 462	AI669567, AI695711, and T05468.
HTWDK68	7110	753086	1 - 437	15 - 451	AA129656, and AA746901.
HTWDJ42	7111	713869	1 - 328	15 - 342	N77331.
HTWDI49	7112	723047	1 - 571	15 - 585	AA054396, AI743787, AI073458, AA018101, and AL044482.
HTWDE70	7113	844831	1 - 436	15 - 450	AC005696, and U72337.
HTWCL86	7114	575978	1 - 215	15 - 229	
HTWCI08	7115	959591	1 - 401	15 - 415	AA888961, AW439896, and AA868282.
HTWCG06	7116	935642	1 - 443	15 - 457	AA279971.
HTWCD06	7117	935646	1 - 557	15 - 571	AA579292, and AC006465.
HTWCB69	7118	729244	1 - 457	15 - 471	T84278, and AA383674.
HTWBW72	7119	772117	1 - 230	15 - 244	AW135049, AW083547, R61742, AI568770, AI222656, AI041283, AI640653, AI991607, AW236481, AI969723, AA705419, AI093706, AA425921, AA430741, AW006215, R02041, H61287, H28170, AA468148, AC006208, and A81344.
HTWBV33	7120	594496	1 - 1041	15 - 1055	AA985143, AC005089, AC004834, AC007227, AL133163, AC005071, AC005399, and Z83844.
HTWBV03	7121	869549	1 - 636	15 - 650	AA732581, AA824630, AA832097, N26752, AA808362, AA215352, AW085919, AA669001, AC006059, and AF184110.
HTWBT62	7122	742588	1 - 521	15 - 535	T83835, AA677864, AW261956, AW261956, AA298745, Z99715, Z99572, AC005482, AC005027, AC009501, AC007064, AC006257, AL022100, U80460, AC004191, AP000517, AB023054, AI049872, AL021978, AC003007, AC005632, AC005697, and AC005229.
HTWBP67	7123	751752	1 - 447	15 - 461	AA056010.
HTWBL08	7124	959619	1 - 406	15 - 420	W56799.
HTWBI04	7125	922175	1 - 395	15 - 409	AI638694, AW182504, AI150350, AI376812, AI373044, AW003341, AI083699, AA534930, AI887148, AI951215, AI620446, AI659373, AW206004, AI085282, AI522003, AI521262, AA741574, N67531, AW339317, AI695995, AI916152, AI092112, AA765164, AA808097, and AI620044.

HTWBF27	7126	683546	1 - 565	15 - 579	W37350, AI970621, AI810064, AI493716, AI189191, AI885136, AA743040, AI189957, AA760856, AW071071, AI433949, AA481996, AA825555, AA515413, AI200341, AW190996, AI795936, AI189529, AI824302, AA975839, AI695491, W37351, and AA481851.
HTWBE63	7127	745194	1 - 333	15 - 347	H92261, and AC016025.
HTWBD84	7128	783120	1 - 463	15 - 477	AA699991, H71504, H71176, and AC000118.
HTWBD61	7129	604245	1 - 555	15 - 569	AP000355, AC003950, AC005089, AC007151, Z69705, AC004754, AP000036, AC005300, AC007225, AB023048, AC005015, AC003085, AP000510, AC006441, AL109963, AC004813, and AL022336.
HTWAM49	7130	722141	1 - 432	15 - 446	H74000.
HTWAM48	7131	518825	1 - 327	15 - 341	AA743565, AA743563, AA742175, AI220263, T57857, T57938, and AC009304.
HTWAM25	7132	677506	1 - 744	15 - 758	AI810002, AI652845, AW082692, AI627258, AI671544, AI671088, AI634816, AI147359, AI206170, AI472278, AI568947, AA889568, AL036581, AI016893, AI307382, AI024362, AA961211, AI911594, H43229, AI041222, T26622, AI457243, H11156, AW204388, AI674226, AA464060, N50195, H44677, AW303315, N49065, AI004849, AA188991, M79060, AI142365, T85312, AA100133, and R72791.
HTWAJ11	7133	967845	1 - 728	15 - 742	AW088739, AA453123, and AA449987.
HTWAE31	7134	725127	1 - 342	15 - 356	RI6359, N57044, AA588892, AA548419, AA853105, H03307, R25111, H02478, AI031908, R02720, AI807471, AI827995, AI539386, H12509, AA412317, H72421, AA455577, AA305179, R23890, AW371415, H00834, R76442, AI025228, R31066, W79084, R37557, W00472, AI190303, R73757, R71169, H03862, AA393148, H72396, AA436117, N40362, H59895, AI345954, AA868538, R23710, H01351, R83423, AI291760, AA988977, AI311479, AI025986, R63278, AI083851, AI219986, AA932930, AI829710, AI436105, R65986, R76229, AW268605, AI202768, R75983, AI142135, AI338679, N37092, AA305134, AI200426, AI720044, AA295914, AI808710, AI309975, AA905015, AI289227, AI911731, AW084515, AA976254, AA883578, W58740, AI830140, AI798704, AI332422, AI807161, AI222787, AA885823, T85666, AA884231, AI742423, AI148589, AI476645, R73969, AA906270, AI991280, AI091541, AI040961, AA884285, AA843421, N26589, AI204236, AI091532, AI081663, AW001083, AA435561, and AF151810.
HTWAB85	7135	522346	1 - 294	15 - 308	AA522944, AA704012, AA809116, AI648583, AA070899, AC003007, AC005632, AC006064, AC007731, AC005500, AL031680, AC004659, AP000065, AC008033, AC007687, AC005358, AC006449, AC005015, AP000212, AP000134, AC006262, AC005102, AC004797, AC006333, AL031848, AC005081, AC002544, AL031767, AC005013, Z95152, AC005412, AI022320, AC005257, AC005899, AC006001, AC007384, AC004851, AC003070, AC016831, AC004125, AC005261, AC002996, U91318, AL139054, AF045555, AC005696, AC005914, AC004167, AC007055, AC008101, AB001523, AP000552, AC005722, AL049779, AL035410, AP000044, AC002400, AC004967, AL031311, AC004996, AC005575, AC006120, AC004883, AL049780, Z84480, and U91326.

HTWAB65	7136	533745	1 - 419	15 - 433	<p> AI187056, H82904, AI133350, AI246876, AA614055, AL119415, H91630, AA677886, T81869, AA625238, AI457464, AL049765, AC002072, AP000152, AP000011, AF035396, AF003625, AL031391, AL031278, U13657, AC007363, AC002524, AL117258, AC008012, AL049829, AB014088, AC004470, AC005969, AC004190, AC004687, AC009411, AC006971, AC004998, AC005061, AF101874, AL022575, AC004225, AC004948, AC007486, AP000516, AF036938, AC007100, U01882, AL035552, AF001905, AL022151, AL121654, AC006143, AL133249, AL117325, AC002463, Z75745, AC004384, AC004385, AC004025, AP000567, AC004103, AL049781, AC002395, AC002457, AL132826, AC004070, AC007751, AL109753, AC002980, AL031433, AP000083, AL022147, Z84470, AB020867, AC006197, AC004519, AC004020, AC005389, AC007380, AL031653, AL049589, Z83822, AC008041, AC005539, AC004052, AC007877, AL109620, AC003083, AL031651, AC000115, AL020989, Z97632, AC008123, AC005728, AC004979, Z83841, AL049612, AL118521, AC007312, AL109733, Z82975, AC004552, AL133233, AC003013, AC005535, AC004389, AF130342, AC003667, Z69367, AC002564, AL022160, and AL049177. </p> <p> AA836182, AI818453, AA345400, R12683, AI371165, AA507984, AA420739, AC006946, AC005952, U85195, AC006456, AE000658, AC004447, AL035417, AC005043, AC002400, Z54334, U07562, Z95115, Z97054, AC004799, AL110279, Z98752, AP000295, AF088219, AL109758, AC005837, AP000044, AP000112, AL132708, AC004672, AL023574, AL035691, and AL035681. </p>
HTWAB57	7137	735153	1 - 350	15 - 364	
HTWAB46	7138	522817	1 - 229	15 - 243	
HTWAB42	7139	714291	1 - 372	15 - 386	<p> AA728861, F13749, AA715351, AL039309, AI636734, AA381762, AW238016, AL135643, T07346, AA341120, AI751162, AW162288, H12972, AI696793, AA804625, AI053489, AA302952, AA878407, AI973173, AL021366, AL050332, AL024507, AP000358, AC008149, AL022326, AL049694, AL049869, AL121754, AC007225, AC002470, AL121655, AC004990, AF126403, AC006449, AC005696, AC004477, Z75407, AC005089, AJ251973, AC003682, AC005703, AL049872, AC002492, AC005632, AC007731, AC005015, AC005500, AL078584, AC004408, AP000553, AF064860, AC004638, AC007051, AL022313, U47924, AC002430, AC020663, AC007384, AC008012, Z98048, AF129756, AL049829, AL021154, AP000096, AL034417, AC005057, AC005488, AL096703, AF109907, AL022067, AC004149, AC004079, AL031447, AC000052, AL031594, AC006121, AC005041, AL049636, AP000240, AC002350, AC005914, AC006511, AC004019, AC007066, U95741, AL022336, AL031296, AF053356, AC004491, AC005081, AC001228, AC004815, AC007546, AC005180, AC005722, AL023803, AC006538, AC009516, AL031589, U85195, AL022323, U02068, AC005071, AF165926, AL080243, AC005237, AC005323, AL121603, AC005740, AC005971, AL136295, AE000658, U91321, AC005102, AL031587, AJ003147, AC004983, AL117258, AC005229, AC005837, AP000556, AC004471, AC007308, AL109984, AL133245, AC004913, L77570, Z83840, Z93784, AC004991, AF030876, AL109627, AL109827, AC006116, Z95116, AL117340, AC005911, </p>

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HTWAB32	7140	524291	1 - 309	15 - 323	AA630476, AW023975, AI174703, AA663579, AW275432, AA425283, AW409626, AI114543, AA493546, AI547110, AW084152, AA631915, AI282479, AI254267, AI708108, AA555232, AA601376, AI753904, AW409621, AA280886, AW026305, AI421950, AW339619, AI419337, AI568376, AL039436, AI310670, AW104161, AI061313, AI446618, AI361090, AI349130, AA502991, AW192419, AI267416, AL042667, AL042670, AI801479, AA525818, AI039257, AI049999, AA180056, AA669238, AI433952, AW439224, H86725, AW270468, AI434653, AL037067, AI065031, AI889345, AW084445, AI520984, AA664963, AI284543, AW148964, AI281622, AA526542, AI090377, AA831426, AI572680, H59429, AI003068, AA829044, AI476049, AI797998, AA570255, AI250552, AW327624, AA714011, AI923052, AA525156, AI252005, AI254463, AW151247, R99253, AI921744, AA229012, AA669155, AW069273, AA483735, AI254770, AI809300, AA572711, AI791659, AI251284, AI251034, AI251203, AA601712, AI457152, AC002306, AC005519, AP000008, AC004125, AC008044, AC002094, AL049694, AC004234, AP001054, AC004808, AB020865, AL022165, AL021453, AF129756, AC004019, AL133163, AC005175, AC004859, AC007488, AC005911, AC007421, AL049776, AC005089, AL049839, AC004263, AC004233, AC007050, AC004895, AB001523, AC005484, AC004257, AC005412, AC007277, AF111168, AC005585, AL031311, AC008372, AL034420, AC005696, AC007036, AL021808, AC007308, I44140, AP000553, AF001550, AL035587, AL139054, U95742, AL031673, AL049538, Z99714, AC002312, AC007229, AC006487, AC007216, AL109758, AC005821, AF207550, AL022322, AC005740, AJ011930, AF109907, X69907, AC005921, AC003684, Z83843, AL080317, AL035416, AL121653, AC004858, AC006315, AC005346, AC002492, AP000704, AC006006, U85195, Z98051, AC006261, AC005365, AC005180, AE000658, L78810, AC006509, AC007237, AC002527, AC004112, AL031587, AC005932, Z85986, Z54073, AC004006, AL049829, AL031846, AL109628, AC006449, AP000248, AC004814, AC002039, AC004973, Z75744, AC004056, AC003957, AC005015, AC005624, Z99716, AC007371, AC005829, Z95114, AL034423, AC007684, Z83840, AC005183, AP000557, AC005253, D00591, AC005632, AC003007, AF196779, AL121595, AL031433, AC004994, AC005722, AC004084, AL031670, AC004801, AC005332, AL133246,

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HTWAB27	7141	522796	1 - 353	15 - 367	AC003010.
HTWAB18	7142	522794	1 - 194	15 - 208	AA846935, AI796594, AA904211, AC005190, AC005531, AL022336, U91326, AC005520, AC008101, AC009516, AL022721, AC006512, AC008044, AL031848, D87675, Z99716, Z95114, AC002470, AC007308, Z97054, Z93023, L78833, Z82190, AC007057, AC000081, AC006120, AL031685, AC004259, AP000555, AP001056, AC005255, Z82244, AL031311, AL133448, AF165926, U96629, AL050318, AC005924, AC005484, AC003101, AC007214, AL049776, AC004600, AC002350, AC006544, AL080243, AC005280, AC006064, and AC005231.
HTWAA79	7144	869563	1 - 392	15 - 406	AC007766.
HTWAA42	7145	522603	1 - 140	15 - 154	
HTWAA32	7146	522797	1 - 426	15 - 440	
HTWAA31	7147	915276	1 - 332	15 - 346	AA643226, AI014703, AI969243, AW162494, AW162864, AI189060, AI859830, AW204291, AI948937, AI989446, AI954000, AI309612, D81407, AI675152, and AL022240.
HTWAA22	7148	425133	1 - 442	15 - 456	
HTWAA17	7149	667166	1 - 291	15 - 305	AI039089, AI912401, AA657752, AA641122, AW274078, AI049845, AA612727, N74479, AI187148, AI828275, AA600202, AA452887, AA581247, AI446336, AA158549, AA513851, AA630854, AA015740, AA595499, AL031595, AL132777, AC002425, Z98051, AP000509, AL049766, AC004895, AC009516, AC006512, U91326, AC005291, AL035071, AC007731, AL021939, AC005500, AL049780, AC005730, AF003626, AB023049, AC005484, AC005921, Z98304, AL096701, AF017104, AC006270, AP000702, AC005089, AL031257, AC002551, AF196969, AC006511, AC002465, AF053356, U47924, AC004448, AC020663, AC006530, AC004821, AC004491, AL049830, AF196972, AC005952, AB000882, AC005225, Z84480,

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HTUAE10	7150	968597	1 - 400	15 - 414	AL1285485, AL348867, AL053496, AW268210, and AW303040.
HTUAA93	7151	522950	1 - 351	15 - 365	
HTUAA79	7152	773978	1 - 369	15 - 383	
HTUAA63	7153	522080	1 - 249	15 - 263	
HTUAA59	7154	556958	1 - 347	15 - 361	AA487321, AL1793001, R00245, AA377710, AL031176, AL096773, AC004009, AL109865, AL109622, AC002045, Z99756, AC004042, AC002492, U95626, AC000358, AC006926, L42096, AC000114, AJ011930, AC012083, AC006080, AL109854, AC003677, AC005792, AP001068, AL109939, D42052, AP000475, AC007677, AC004685, AC003090, AC007253, and AL021407.
HTUAA55	7155	522805	1 - 347	15 - 361	AL117342.
HTUAA51	7156	725949	1 - 303	15 - 317	H96435, H96525, AI051562, AI032133, AP000150, D83253, and AP000009.
HTUAA45	7157	526606	1 - 359	15 - 373	AL037910, AL1223987, AI860020, AA192278, AW148792, AA346454, AL289962, AA587995, AA608704, AI871722, Z96622, AC005924, AC006480, AC006539, AL022318, AC005829, M17262, AC004686, AL109627, AC003035, AC007066, AB023051, AC007114, AF129756, AC007510, AL021155, AC005037, AP000692, AC005094, AL049569, AL023284, AC007999, AP000512, AC006530, AC005944, AC004024, AC004895, AC003010, AC005632, AL133245, AF053356, AC005102, AC007308, D87675, Z99716, U73636, AC005940, AC005839, AC006071, U80017, AC003037, AL031295, U95740, AL023553, Z93023, AC004042, AC006996, AC004087, AL020993, AC007285, M29929, AL135783, AC005215, AC002430, Z85986, AP000505,

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HTUAA42	7158	694535	1 - 101	15 - 115	AC005189.
HTUAA32	7159	522807	1 - 212	15 - 226	AC005601, and AC004782.
HTUAA25	7160	575308	1 - 476	15 - 490	H69008, AA458742, R02451, R00403, T99834, R02347, H86860, AA172191, AA845293, R89511, H67123, H73704, AI926681, AI860677, AA303055, R24915, AA457249, AA128700, AA176917, AA772016, R07395, AA604854, AA458498, AA828676, AA655015, AA553810, F27015, AA468425, AA055601, N64587, H72339, AA879053, AL040462, F02833, AA657835, AA640617, AI244254, AA613164, AI696550, AI051037, AA379332, AA693484, AI287832, AW081815, H63806, AA865262, AI982634, AA323349, AA467963, AA743811, H53168, AA229464, AW274197, AA573127, N76053, AI572693, T81820, W69964, AI565245, AA293366, T07483, AA304977, AA331231, AW075132, AI590458, AL046746, AI590499, N30431, AF141308, AC007227, AL035413, AF084941, AL035587, AC005366, AC004623, AC005778, AC008033, AL008723, AC000035, Z83822, Z94721, AC000025, AC005527, AC005332, AC004202, AP000518, AB023054, Z98950, AC004087, AL050308, AL031575, AL021707, AL049844, AL121603, AL096791, AC003669, AF196779, AF011920, AL022325, AL049761, AL008583, AL031588, AC006077, AC007406, AC005089, AL049780, AP000553, AC009516, U64564, AC003025, AF139813, Z92542, AC005969, AC004228, AL022318, AC004929, AL031678, AC005901, AC005529, AC004408, U73023, AC007193, Z15026, AC004181, U95739, Y14768, AP000505, AC006965, AC004832, AC003082, AP000355, AF129756, AC006487, AC006991, U73331, AF061032, AC004651, AC004596, AC005300, AC002425, AC004638, AC006001,

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HTUAA23	7161	575319	1 - 357	15 - 371	AW105729, AA483223, AL609972, AL252176, AL254192, AA501791, AA583568, AA595656, AA557982, AL278972, AW150209, AA808982, AL267356, AL267450, T63954, AL421950, AL419337, AL133243, AC004686, AC005971, AC005102, Z98742, AL133245, AL121603, AL035587, U95742, AC002430, AC008101, AL031311, AC005330, AC007216, AC004099, AL022322, AC007384, AC016830, AC016027, AL008730, AL008718, Z84469, AC009247, AC004771, AL009181, AL049749, AL049776, AL049569, AC005280, L78810, AL133448, AL035681, AC004834, AC005529, U91327, AL096701, AJ003147, AC007227, AC005387, AC006946, AC004650, AC005914, AC004895, AC005089, AC005527, AL022238, AP000349, AL021808, AC005512, AC004675, AC004531, AC004985, AC002416, AC005484, AL031774, AL031589, AC005911, AL049636, AP000557, AC005261, AF111169, AC003029, AC006468, AC004025, U63721, AC006071, AC005288, Y18000, AC007546, AL031282, AF038458, AP000240, AC006211, AC005553, AL021453, AL050308, AL022320, AC000026, AP000514, AL031276, AL022313, AF165926, AC005839, AC006312, AC005828, AC006006, AL080243, AC005488, AC002404, AC002059, AL096712, AC005736, AC005913, AC006162, AC005821, AC005088, AC004913, AC002310, AP000356, AB023049, AC004967, AF053356, AL035422, AF196969, AL139054, AC007263, AC002314, AC005212, AC002425, AC005778, AL022316, AC005921, AP000553, AC004626, AP000692, AL031228, AC007193, AC006057, AC004263, AF001550, AC005755, AL035443, AC002470, AC004922, AC006487, AC005231, AL022163, AF030876, U62292, Z85987, AL109801, Z93017, AC007030, AC004213, AC004408, U80017,

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HTUAA21	7162	575312	1 - 362	15 - 376	AW275432, AA428270, AW238137, AI791659, AA372958, C75012, T40342, H65404, AL031587, Z93930, AC006367, L78833, AC002470, AP000088, AC005546, AF165926, U62317, AL096791, AL049694, AL024507, AL024498, AC007308, AL024474, U91321, AL022316, U73634, AP000030, AC007785, AP000042, AP000110, AC005081, Z95113, AC007537, AC004821, AC007546, AL080242, U47924, AC004816, AC006538, AL078581, AL023876, AC006044, AC005520, AC020663, L44140, AC004699, Z98941, AC004890, AL022476, AC006450, AF001552, AC004477, AF139813, AC005828, AC004851, U91322, AP000501, AC005082, AL133445, AC007934, AL122020, Z98048, AC005736, AL121652, AC004228, AC004150, AC005412, AC006441, AC003029, AL109758, AC005751, AC005332, AC004973, AC005821, Z97054, AC005089, AC005562, AC005335, AC003689, AC002070, L78810, AC008372, AP000704, AC004223, AL031274, AL049745, AL035086, AC006203, AP000152, Z84487, AC007066, AF196972, AC007207, AC006249, AF134726, AL031255, AP000555, AC005697, AL080243, M89651, AC016025, AC006512, AC003025, AC005011, AC005295, AC004997, AF055066, AC004659, AL021155, AC002996, AL133163, AC006251, AP000215, AC007151, AC004752, AC005664, AL022238, AC002565, AC006211, AL139054, AC007685, AL020995, AE000661, U91318, AC006547, AC005514, AF001549, AL022320, AC004841, AC004067, AC005102, AC004263, AL009031, AC005585, AC004686, AC002326, AL035413, AC004983, AL049758, AL022171, U63721, AC002991, Z94056, Z97989, AC004084, AC005288, AC003108, AC006261, AL049697, AC005200, AF111168, AL023494, AC004125, AC003665, AC000075, AC005940, AL049757, AC005084, AF109907, AC005231, AC008126, AC002553, AC005839, AP000348, AC015853, AC004832, AC005523, AC006285, AP000557, AC007731, AC004526, AF047825, AC000353, AC007540, AL031291, AC005067, AL022394, AC002350, AC005500, AC007279, AC005015, and AC003102.
HTUAA11	7163	967919	1 - 161	15 - 175	

HTUAA06	7164	960761	1 - 370	15 - 384	T81597, A1961957, AC006241, AL031427, AC002302, AC005015, AC006084, AL049569, AL049761, AC003982, AC003029, AC004820, AC005920, AC005669, AL022336, AC002425, AF196969, AC003003, AC002551, AL109827, AC005065, and Z97056.
HTUAA02	7165	921277	1 - 243	15 - 257	
HTSHI55	7166	576030	1 - 359	15 - 373	
HTSHC81	7167	778008	1 - 388	15 - 402	W40507, AW371697, AW371691, AW371690, AA325283, AA205748, AL041320, AI751044, and AB002323.
HTSHB38	7168	709445	1 - 494	15 - 508	AA458722, AA457463, and AC005277.
HTSHB18	7169	666569	1 - 307	15 - 321	AI743432, H82249, Z41469, R42880, and AI217259.
HTSGZ92	7170	975082	1 - 285	15 - 299	AI804747, and AL035413.
HTSGQ88	7171	576077	1 - 418	15 - 432	
HTSGQ42	7172	576078	1 - 269	15 - 283	
HTSGM53	7173	728289	1 - 408	15 - 422	H82292, and H82290.
HTSGL89	7174	787027	1 - 553	15 - 567	R96037, R96038, AA678616, AI889426, AI250747, AI223735, AW069227, AW151870, AW151201, AA741301, AW084004, AI366555, C16638, AL039761, AW078821, AW390284, AI347665, AI254440, AA644223, AA581498, AA084880, AI472736, AL035893, AW440568, AI246061, AA678932, AW081610, AA653291, N67313, AA652763, AW243945, AI251353, AI889995, AA032020, AW086117, AW086251, AI254781, AI255012, AI252979, AI254626, AI284684, AW086334, AA126814, AI568659, H09639, H28464, AI254153, AI358776, AA599712, AW438765, AA721530, AA309362, AA862312, AI249688, AA995373, AW086356, AI251968, AI251976, AA632565, AI254673, AI241970, AW086319, AI223508, AI254658, AI252933, AI251598, AI251298, AI252207, AI251380, AA565911, AI417469, AI582583, C15504, AA721523, AA371410, AI732671, AW327673, AW068596, AI961983, AW237905, AI791971, C14627, AI038304, F26582, AI754567, AI569100, AW192599, AI754105, F32248, AI755214, AI270149, N87435, H44471, AA747757, AI251949, AI255059, C14796, D51877, AI080307, AI251034, AA365318, AW086383, AI255003, W32993, AI520967, AW086335, AW019964, AI864620, AC005255, AL031602, AC005071, AC004967, AL109853, AC006084, U95742, AC006241, AC009891, AC006236, AC007216, AL031311, AC002404, AC005209, AL135960, AI131016, AP000745, Z56114, AL034451, Z83838, AL096757, AL021391, Z93930, U91321, AL035089, AP000558, AC005262, AC007151, AC002365, AC005523, AP000557, AC006571, AC009516, AL110279, AC004975, AL008735, Z69651, AC004675, AI251973, AL022326, AL096791, Z94160, AF088219, AC002984, AF196969, AC004552, AC002527, AL022320, AL035088, AC004234, Z93241, AP000550, Z98946, AC005736, AL031664, AC006947, AC007688, AL009183, AC007546, AC003101, AP000704, AC003950, AF055066, AL009181, AC005899, L78833, AC004655, AC003108, AC007242, AC005070, AC004492, AL121655, Z68284, AC004259, AC006198, AL031843, Z93244, AC005225, AC007386, AL109801, AC005014, AF031078, AC008394, AC006511, AC004703, AC007204, AC006367,

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HTSFU94	7175	793056	1 - 443	15 - 457	AW270091, AW293640, AI198447, W72558, AI291780, AA971480, AA134809, AI568769, AI052173, W76553, F25233, W94887, D45557, F35717, AF140690, and AF140691.
HTSFF64	7176	747003	1 - 398	15 - 412	H16146, H45145, AW245497, AA310767, AA029963, AL042338, AW163308, AF070605, AF034373, AC005014, and AL137587.
HTSEX79	7177	524280	1 - 239	15 - 253	AI624551, AA829193, AL044271, AA483606, AA516193, AA570740, F00564, AL048275, N72170, AA568204, AI682899, AA730872, R95840, AA654874, AA206475, AI433104, AA484738, AA470567, AA502532, AW023111, AI915081, AA599069, AA515723, AA578627, AA516190, H53217, H60249, N32878, F13808, AW265735, H78898, H66577, AA584690, AA630122, N27751, W20344, AA084609, AA515733, AA706628, AI445460, AA338233, AA525830, AA601728, AA479751, F01666, F01532, AI569363, AW068580, AA714110, AL045476, F37292, AI587349, AI054339, AA001591, AA970967, AC002544, AC007242, Z84467, I34294, AC020663, AC006454, AL031003, AC005531, AC004526, AL020997, AC005280, AC002316, AC006445, AC006064, AF196969, Z99129, AC005318, AC002117, AC002477, AC006077, AC003663, AL031282, AC006285, AC002347, AC005015, AC002470, U82668, AC005529, Z95114, AF134726, Z98047, AL121769, Z93017, AC004991, AC003043, AC004186, AP000501, U91326, Z84496, AL135744, AP000114, AL031427, AL0355398, AC007382, Z97353, AL009181, AC005082, AL109984, AP000689, AP000697, AC006449, AC005971, AC007011, AP000212, AP000134, AC009516, AC005726, AC004999, AL022316, Z95115, AC006111, AC004531, AJ236701, AC003029, Z99754, AP000517, AP000553,

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I/TSEW02	7178	920963	1 - 477	15 - 491	AI632021, AI522132, AI468255, AI473408, AI242842, R67081, and AI635775.
HTSAA20	7179	836021	1 - 403	15 - 417	AA295823, and H63678.
HTOJZ05	7180	869900	1 - 496	15 - 510	
HTOJV25	7181	456941	1 - 346	15 - 360	
HTOJT60	7182	740599	1 - 291	15 - 305	R68381.
HTOJN69	7183	869925	1 - 474	15 - 488	T84775.
HTOJM95	7184	795719	1 - 494	15 - 508	AI284640, AI755214, AI754567, AL046409, AI963720, AI334443, AA602906, AW341903, AW193265, AI270117, AW021917, AI590458, AL079645, AA491814, AW020088, AI962030, AI250552, AI244127, AI590499, AI613280, AL046457, AI350211, AI733856, AW023111, AI251284, AI251034, AI251203, AI284543, AW275432, AI254770, AI281881, AI874341, AA622801, AW406755, AL037683, AI246796, AI926728, AI431303, AI366555, AA525807, AA651632, AW237905, AI064918, AI925579, AI061313, AI354423, AA653139, AI267269, AA704393, AI249853, AI609972, AW270385, AA502985, AL119649, AW276435, AA747757, AW328000, H07953, T74524, F36273, AI345681, AL044940, AA601376, AA515905, AL031295, AC007225, AP000692, AC004890, AL049694, AC002300, AL031120, AC006285, AL035405,

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HTOJL36	7185	866492	1 - 1665	15 - 1679	AL044489, AL138265, AW069819, AW188427, AL120269, AA904211, AI679782, AI038990, AI053623, AI653525, AI951863, AW088224, AW131249, AA601336, AL040054, AF034176, AI457152, AI694178, AI744188, AI798521, AI924251, AI889779, AI028148, AW406447, AI963600, AA527961, AA640277, AI207476, AA158549, AA547979, AI801505, AL042310, AA297145, AI204309, AA527963, AW157180, AI654588, AL040521, AW069227, AI445934, AW328331, AL046746, AI925321, AA489390, AA525174, AA515728, AL119123, AW243831, AI800168, AW162314, AA084401, AW275432, AI962030, N23504, AA804994, AA644090, AA126005, AA225406, AI800180, AI049630, AA814400, AI685198, AI366555, F25135,

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HTOJF70	7186	457041	1 - 459	15 - 473	H48690, T80384, AA040129, F08300, AW371619, AW371614, AW371634, AW390107, Z93784, AF119662, and AL050282.

HTOIB05	7187	932423	1 - 455	15 - 469	N90622, and H85692.
HTOIZ49	7188	586144	1 - 399	15 - 413	
HTOIX57	7189	735004	1 - 327	15 - 341	T96088, T80652, and AC004143.
HTOIQ30	7190	584928	1 - 393	15 - 407	W87719.
HTOIL74	7191	765840	1 - 553	15 - 567	W69857, AA552546, AA029444, W69750, AB023154, and AF086290.
HTOIK90	7192	557829	1 - 401	15 - 415	AL050305, and AL031007.
HTOIJ84	7193	783212	1 - 486	15 - 500	H03759, and R72987.
HTOIH68	7194	753595	1 - 428	15 - 442	T48180.
HTOIH09	7195	961168	1 - 176	15 - 190	T20251, and AC005071.
HTOIF08	7196	959992	1 - 560	15 - 574	H42823, W39164, N41131, and AF146689.
HTOIA89	7197	787088	1 - 479	15 - 493	H63865.
HTOIA82	7198	844319	1 - 401	15 - 415	H04212.
HTOHZ59	7199	869950	1 - 504	15 - 518	AA132611, AA225871, and AL035697.
HTOHX62	7200	537358	1 - 254	15 - 268	
HTOHT93	7201	791459	1 - 427	15 - 441	AA284052.
HTOHR03	7202	924976	1 - 591	15 - 605	AI341328, AW274848, AI638171, and AI992100.
HTOHN89	7203	956264	1 - 415	15 - 429	W91885, and T98858.
HTOHI14	7204	659280	1 - 486	15 - 500	H19673, H41120, AI793195, AI744281, and AL121754.
HTOHH78	7205	963216	1 - 2033	15 - 2047	AA143556, AA146625, AI284640, AL046409, AI613280, F36273, AI281881, AW193265, AI610159, AI963720, AI431303, AW276827, AI350211, AA720702, AW419262, AL048925, AW303196, AW274349, AI334443, AW301350, AA491814, AI619997, AI085719, AW021583, AA610491, AA828704, AA513141, AW270270, AI149478, AA581903, AL119691, AI499503, AI688846, AI471481, AW406447, AW265009, AW073470, AW029038, AA649642, AW193432, AI061334, AA843450, AA613345, AI053672, AW338086, AW162049, AI929531, AI754658, AW406162, AI610376, AI679782, AI962050, W79504, AW072923, AL044940, AI434706, AI305547, AI355206, AI168185, AI865905, AW089322, AI339850, AI110770, AW406755, AI590958, AI133164, AI148277, AL138265, AL046205, AI341664, AI471572, AA159978, AL046898, AA758934, AI570261, AI685198, AW088616, AA493708, AW169136, AI590689, AI289067, AW162489, AI732186, AI246796, AI754955, AL048626, AI367497, AI633390, AI358229, AA521323, AI049722, AI358343, AI653886, AI871722, AI860020, AW166815, AL038785, AW088058, AA598586, AI571512, AL138455, AA679124, AI674873, AI918421, AI282310, AI365988, AA601253, AW022379, AA126051, AA126035, D82290, AW168342, AL040130, AI251002, AL120687, AI921476, AA507824, U18398, AC004963, AF077058, D83989, X75335, AF015152, AF015151, X54175, X54178, U57009, X54181, AF015156, U57005, U57007, X55925, U18394, U18391, U18392, U57006, U57008, X53550, U18393, AF015157, X54180, I51997, U18390, U18396, M87919, X55923, U18387, X55931, U57004, X54176,

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HTOHG68	7206	964961	1 - 465	15 - 479	<p>AA757866, AI700109, AW419262, AL118991, AI431303, AL120086, AA493136, AW022608, AA588001, AW263415, AI537772, AA081462, AA515334, AI369580, AA908687, AA568869, N54894, AI963221, AA618452, W01230, N49368, AI457397, AW275971, AA497023, AL119713, AI309389, AL045813, AA613249, N35306, AI499588, AA524821, AI523316, AI285753, AL046549, AI924948, F05324, AI962874, AA550797, AA504877, AW004911, AI609464, AL042756, AA533333, H50970, AI925579, AI028498, AI733856, AC007666, AC004019, AP000306, U95740, AP000047, AC004594, AP000115, AC005353, AL031390, AC000052, AC005912, AC005625, AC004945, AL050323, AL031224, AL035072, AC004913, AC007225, AL135922, AL024497, AC005670, AL031311, AC004263, AC005789, AL034394, Z94721, U62317, AC007151, AC005736, AC002470, AC005406, AC005839, AC005041, AC007539, AC008040, AC005661, AL049798, AL117344, AC005191, AC004149, AC004227, AB020873, AC004889, AP000074, AL136295, AC004000, L78810, AL008718, U65406, AC005209, AL031680, AC007008, AC004596, AP001116, Z82201, AL031666, AC007377, AC005279, AC007685, X78901, AC004996, AC005228, AC004933, AL021528, AC006006, AC005988, AC007637, AC004782, AC006369, AC005908, AL096701, AL109827, AC005203, AL049540,</p>

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HTOGU88	7207	558488	1 - 346	15 - 360	AI417120, AA483778, AA758129, AI367757, AI248999, AA358028, AA287676, AA479947, AA758144, AI540846, AA252123, AA227893, AA505839, AI468785, AA354625, AA282788, T89256, AA257010, AA490481, AI572545, AA188716, AI870449, AC008394, Z93022, AC003084, AL034399, AC004539, AC002349, AL020992, AC007567, X81002, AL033403, AL121694, AC007786, AC004485, AC005161, AC005297, AC005191, Z95118, AC003109, AL049563, AL022721, AC007857, AC004775, AF047668, AL035258, AP000496, AC009248, Z99571, Z68332, AL109659, AF029308, AC005189, AC004535, AL050401, AB020876, AF002997, Z92844, AC006287, AC005908, AC004026, AL117375, AC005064, AL078600, AL133277, AL080312, AC003098, AF172277, AB017651, AC005588, AC004070, Z82211, AL049641, AL022310, AC007447, AC002085, AC002038, AC002383, AC006070, AF198097, AL049734, AC003692, AC005050, AC008064, AC005076, Z81008, AL109807, AL079305, AP000545, AL121782, AL032822, AL132985, AL122126, AL050308, AL008722, AC007090, AC003687, AL031776, Z70233, AC007204, AC007655, Z70226, AC007254, AL096862, AC007628, AC002468, AL079334, AC005062, Z94721, AL034428, and AC005922.
HTOGU78	7208	529798	1 - 195	15 - 209	
HTOGU77	7209	523533	1 - 119	15 - 133	
HTOGC91	7210	790438	1 - 548	15 - 562	H06214.
HTOFV57	7211	529614	1 - 171	15 - 185	
HTOFV08	7212	960203	1 - 178	15 - 192	
HTOFU55	7213	732454	1 - 425	15 - 439	W90433.
HTOFT20	7214	527938	1 - 47	15 - 61	
HTOFS74	7215	765918	1 - 161	15 - 175	T64509.

HTOFO18	7216	911756	1 - 2163	15 - 2177	AI821714, AI792133, AI791913, AA610491, AI821785, AL046409, AI431303, AI345157, AI963720, AI357823, AI284640, AA680243, AI732120, AI037683, AI305766, AI037632, AW270258, AW088846, AL079645, AA634786, AI357976, AI885488, AA602906, AA651639, AI754336, AI733856, AA469327, AI270117, AI753488, AI138455, AI564185, AI061313, AI358384, AW193265, AI053623, AI054333, AI354423, AA490183, AI613280, AA653612, AL048925, AI754253, AW302903, AI635819, AI696962, AW021917, AL119649, AI755214, AA303007, AA857486, AI754653, AW103758, AI040051, AI246796, AA846935, AW189068, AW271904, AI174230, AA586661, AI445815, AW029095, AI754105, AL118991, AA622801, AW439558, AA468022, H09744, W23546, AA613203, AI919265, AA347927, AW327868, AL040054, AW131249, AA653139, AA640986, AW238278, T74524, AI306553, AA720732, AI110770, AI350211, AA347930, H05940, AL042753, AW304580, AI870197, AW004911, AI761471, AI809818, AL042756, AA507824, AA613227, AA515728, AI375710, AA572813, AW191886, AW238016, AI469968, AA192278, AI859834, AI036283, AI366555, AW028429, AL133668, AW276827, AA877817, AA833875, AI457397, AA833896, AL041706, AA602951, AI587583, AI254913, AI587565, AA665645, AW020088, AA523837, AI805363, AI623764, AW271917, AA908687, AW265009, AI038990, AI358501, AA572685, AI079389, AA579566, AI133164, AI821931, AA658918, AA613345, AL121757, AC006026, AL049591, AC002055, AC007786, U66061, AC004908, AL035073, AC004914, AL078621, AC002980, AC007544, Z75407, AC008169, Z73988, AC006512, AL050347, AC003958, AC004160, AL021939, AL049875, AL031259, AL035667, AC005383, AC005598, AC005740, AC000044, Z80901, AC000034, AL021026, AC004985, AC005521, AC008124, AC004066, AL021978, AC007221, AF029308, AC004738, AL109865, Z68192, AP000080, AL139054, AC005921, AP000108, AL122003, AC004887, AC007680, AP000144, AL109967, AC008069, AC002068, AC005284, AC007002, AC002115, AC006262, Z99758, AL034379, AC006285, AL031281, AL024509, AC004967, AL096701, AL121915, AC016025, AC006960, AL049776, AP000512, AF017104, AC006064, AC004890, AC007242, AC005624, AC005696, Z99716, AC002551, AC005368, D87003, AP000966, AC006372, AC016831, AL109952, AL049643, AL023375, AC002064, AC004859, AC003962, AC004815, AP000281, AC007736, AL133312, AC005519, AC007128, AC005562, AC002073, AP000039, AC006071, AC002425, AL049646, AC005529, AC005899, AC004910, AC004648, AF064858, AL035659, AL050307, U78027, AB023049, AL109628, AC003002, AC002558, AC002310, I51997, AF019664, AC002301, AC012039, AC006509, U07563, AL035422, U73023, U57007, X55925, AF019664, AC003043, AC009248, AC009396, AL031673, AC004655, AF015147, Z98200, U18391, AC005722, AC006211, AF015151, AL133445, AL021997, AC006480, AL031680, AC000026, U18392, AC006030, X54176, AF047825, AC009320, AF129756, AC004514, AF015148, AL035072, AL117354, AC005520, AL050306, X54180, U18394, AC005043, AC002553, AC005736, AP000509, AC002059, AC002477, AC000003, AC007055, X54181, X53550, AP000165, AL031650, U57006, AC005772, AC004217,
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HTOFC06	7217	960546	1 - 270	15 - 284	AI766308.
HTOEX28	7218	936543	1 - 541	15 - 555	W67985, AI806720, AI819360, AA219394, AI743193, R72848, AW117312, H42783, AA889684, AA352279, AI952783, AI818791, AA909553, AW409898, AA282827, AA775865, AW409899, AB033018, and AF161391.
HTOEV91	7219	509938	1 - 460	15 - 474	
HTOET61	7220	742164	1 - 445	15 - 459	
HTOEE28	7221	685375	1 - 312	15 - 326	
HTODM08	7222	960113	1 - 388	15 - 402	N56666, and AI460076.
HTODL10	7223	968395	1 - 407	15 - 421	AA143085, and AB023227.
HTODD59	7224	738532	1 - 388	15 - 402	R81985.
HTODA31	7225	698400	1 - 454	15 - 468	AA236974, AA235912, and AB017915.
HTOCK85	7226	521944	1 - 339	15 - 353	AL043144, R96621, AA367672, AW381823, AA904211, AI271762, AI567391, AA225100, AW103251, AA297011, H07953, AA102737, AA554659, F13749, AA715284, AA715344, AA715527, F17700, AI246061, T47124, AA084609, AI251241, AA279919, AA122307, AA804694, AI310670, AI349130, AA568204, AA570740, AA715338, AA483606, AA354141, AA721523, AA669185, AA302661, AI251944, AA019939, AA809807, AA420549, H54792, AA827904, H68343, AI889579, AA326904, AI620415, AA583386, AA444166, AA837715, AA584765, T52772, AI446336, F01666, AL039930, AI310787, T54783, F35902, AA598605, AA878407, AI306717, AI904944, AA719845, AA640776, AA056248, AA835889, AA078509, T70299, AA091982, N54397, AA804334, AA728911, AI613389, AA658934, AI791185, N92039, AA302982, AA577824, H62550, AW404225, AW051819, AA381762, AA658477, AI217131, AA604831, F03672, AA633565, AL135643, AW023111, AA493947, AA297664, AI821823, AA525331, AA551268, AA708753, AA975894, T40629, AI821921, AI926909, AI821076, AI184061, T50676, AW163763, AA665532, AA557982, AI683426, H86221, AI925462, AI054090, AA744048, AA092862, AW264901, H79586, AP000045, AL022318, AC007216, AC005529, AF196969, AC005332, AL136295, AC007066, U95742, AC002350, AC005527, AC005488, AP000300, Y18000, AC007308, AP000030, AC005015, AP000501, AF207550, AC005231,

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HTOCK73	7227	870004	1 - 378	15 - 392	
HTOCK14	7228	529958	1 - 286	15 - 300	
HTOCK03	7229	925368	1 - 111	15 - 125	
HTOCA55	7230	732469	1 - 384	15 - 398	Z93784.
HTOBE60	7231	742315	1 - 457	15 - 471	T98484.
HTOBC63	7232	530283	1 - 176	15 - 190	
HTOBC26	7233	870011	1 - 245	15 - 259	
HTOBA33	7234	965151	1 - 606	15 - 620	AA262379, R45037, AF745363, AI224135, AI127213, AI417634, AI804049, AI167433,

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HTOAT88	7235	530183	1 - 398	15 - 412		
HTOAT81	7236	530185	1 - 217	15 - 231		T90102.
HTOAT68	7237	530187	1 - 304	15 - 318		
HTOAT66	7238	530188	1 - 344	15 - 358		
HTOAT63	7239	523754	1 - 365	15 - 379		
HTOAT57	7240	870017	1 - 114	15 - 128		
HTOAT50	7241	723595	1 - 335	15 - 349		
HTOAT43	7242	529840	1 - 122	15 - 136		
HTOAT35	7243	521914	1 - 204	15 - 218		
HTOAT28	7244	530191	1 - 403	15 - 417		
HTOAT27	7245	682115	1 - 386	15 - 400		AC004928.
HTOAT06	7246	960581	1 - 227	15 - 241		AW406283, AA481083, and AA334330.
HTOAO63	7247	745545	1 - 653	15 - 667		T84893, and AC007681.
HTOAO01	7248	921744	1 - 351	15 - 365		H00926.
HTOAM08	7249	960122	1 - 292	15 - 306		AA412441.
HTOAL84	7250	783261	1 - 107	15 - 121		H63922, AI080109, and AA410506.
HTOAK39	7251	709579	1 - 479	15 - 493		T73359, and AC005776.
HTOAI51	7252	529553	1 - 275	15 - 289		Z83848.
HTOAI25	7253	529556	1 - 347	15 - 361		
HTOAI15	7254	529557	1 - 293	15 - 307		AL031259, and AL132641.
HTOAD05	7255	932732	1 - 364	15 - 378		AA120896.
HTOAA73	7256	764707	1 - 430	15 - 444		T91665, and D44743.
HTJNX95	7257	795376	1 - 494	15 - 508		R17461, and AA614012.
HTJNT65	7258	771995	1 - 597	15 - 611		AA031753, AI953410, AI273879, AA486535, AI970601, AI804913, N71976, AA252687, AW022153, T95753, AI189228, D58604, R06245, AA470886, AA620519, AI374732, C16129, AA737971, AA043942, H02570, AI359851, AI423638, H52318, AI858710, AA503361, AI420960, AA135778, AL037668, AW151753, AI346020, AI051129, AW440638, AI768841, AA450210, AA399154, AA610484, AA758319, AA865664, AA528037, AI914093, AA975822, AA045559, AA551664, AW002772, AA728996, AI261994, AI431974, AI003695, AW264165, AA971504, AI864825, AI419538, AI422333, AW237522, AI590661, AI346915, AW073186, AI952777, AI424070, R76870, AI094960, AA039924, AI983928, AI337380, AA135734, AA366382, AI687114, R99970, AW024883, AA481014, AI719088, R23164, AI758843, R91051, D20914, R76869, H03271, AR025395, AR025400, AR025410, AR025393, AB011145, AR025403,

HTJNF11	7259	966217	1 - 786	15 - 800	AR025409, AR025399, AR025414, AR025398, AR025415, and AR025406.
HTJNZ89	7260	973076	1 - 372	15 - 386	AA746300, and AC006274.
HTJMU86	7261	870312	1 - 594	15 - 608	AA279274.
HTJMQ90	7262	974496	1 - 210	15 - 224	AF128525.
HTJML71	7263	759890	1 - 457	15 - 471	AA250886, and AC003042.
HTJMF56	7264	733444	1 - 469	15 - 483	N33555, A1400762, and H96299.
HTJAE78	7265	773609	1 - 390	15 - 404	AL022237.
HTJAD50	7266	724438	1 - 307	15 - 321	R06826, and W60035.
HTHDS68	7267	753137	1 - 338	15 - 352	H78116, R96198, AA826048, AW161016, A1337065, AA593462, A1635819, AA482794, AW023511, A1002966, AA339592, A1610607, AL117354, AC007327, AL080277, AF067844, AC004901, AL049869, AL049776, AC004000, AL034423, AC005288, U81833, AC002350, L78810, AL109627, AC002470, AC002312, AC002364, AC005808, AL022578, AL109801, AL021807, and AC005251.
HTHDR27	7268	578830	1 - 654	15 - 668	H58694, and AA676340.
HTHDQ05	7269	932174	1 - 289	15 - 303	
HTHDM10	7270	964906	1 - 399	15 - 413	AI500356.
HTHDL30	7271	578894	1 - 416	15 - 430	
HTHDJ93	7272	792443	1 - 540	15 - 554	AA460795, AA460376, AA779701, and AA460360.
HTHDF13	7273	490673	1 - 604	15 - 618	
HTHDE83	7274	516372	1 - 400	15 - 414	
HTHDC07	7275	933604	1 - 521	15 - 535	AA535817.
HTHCV69	7276	973309	1 - 329	15 - 343	AA523829, AA662017, AA652348, A1270360, AC005822, AL049635, AF053356, AL049636, AC007314, and AC007221.
HTHCU42	7277	578861	1 - 346	15 - 360	T06598, AW304536, AA643451, A1521525, AA643441, A1926102, A1537368, AW020150, AA877992, AA302979, AA995189, A1061468, R82650, H59173, AC005037, AC006285, AC005871, AL122023, AC007686, AC004003, AL031255, AC005288, AC002477, AF117829, AL049694, Z94044, AL121658, AC005531, AL022240, AL109798, AC006482, AC009248, AC002350, L78810, AC005829, A1020995, AC005747, AC004963, AC007226, AC005067, AC006075, AL022320, AL049872, Z86090, AF134726, AC006312, U63721, AC005666, AC006006, U47924, AC004560, AL031311, AL031680, AL133163, AC002367, AF196779, AC006480, AL109758, AC004975, AF111168, AL080243, AL122020, AC005048, AL121603, AC006318, AP000305, AC002492, AL049869, AP000510, AC005922, AP000047, AC007546, Z69890, and AP001053.
HTHC072	7278	578758	1 - 374	15 - 388	AL049835.
HTHC045	7279	722029	1 - 147	15 - 161	

HTHCK89	7280	694051	1 - 604	15 - 618	AL036665, AL042373, AI923052, AI754170, AW069412, H07953, AI687343, AW026305, T74524, AI421950, AI419337, AW272815, AA581903, AI801505, AI361090, AA579419, AL042667, AL042670, AI612142, AW275971, AI613389, AA602906, AI889440, AI133083, AW270385, AI369580, AA714288, AW407632, AI7078409, AA502991, AI307201, AW270258, AW068596, AL118991, AI583252, AA483606, AA643770, AW338035, AW338021, AI469599, AA916430, AA570740, AW238278, H73550, AI753672, AW021583, AI609972, AA683069, AA449979, AI753488, AA534047, AW189068, AI275982, AL042753, AA719073, AW265688, AA455483, AA515728, AA164955, AA937809, AI040051, AI755202, AA622801, AI066646, AW021917, AI755057, AI890324, AA226153, AA635433, AI345654, AL042756, AL047349, AW162288, AL048925, AA687730, AW084445, AA568204, AA649642, AI306232, AI251576, AA714011, AI708009, AA557945, AA668148, AI821714, AI792133, AI791913, AL045813, AA832016, AA515351, AI491765, AA483256, AW274191, AI889579, AW237905, AW023975, AA805841, AA504818, AA315361, Z99754, AC004652, AC005486, AL021154, AC007536, AF165926, AL132777, AC005261, U85195, AE000638, AJ011930, AC006252, AC005377, AC005082, AL021707, AL049760, AC007435, AL020997, AL133445, AC006487, AC004885, AC000025, AF047825, AC005527, AC002472, Z93244, AC005529, AC003108, AC007055, AL031589, AC006312, AC005399, AC007731, AC005670, AF067844, AC005500, AC007011, AC005519, AC007786, AC005736, AC005971, AL050318, AF000046, AP000114, Z83847, AC005330, U78027, AC005006, AC007312, AC004526, AC006077, AL035422, AL022312, AC004805, AC006241, AC007226, Z82206, AC005544, AF064861, AL022323, U63721, D86995, AL031681, AC007938, AC004755, AL031311, AL031283, AC004653, AL022724, AC005484, AC006208, U47924, Z83308, AC007664, AC002310, AC005329, AL031295, AL034548, AC005624, AP000255, AD000671, AC008125, AC006111, Z98742, Z85987, AP000042, U66060, AC002404, AC007052, AC005274, AC004000, AP000510, AC010077, AC003043, AF207550, AL024498, AC005088, AC005943, AP001052, AD000092, AC003962, AL033527, AC005776, AL035088, AC005666, AC004842, AC005207, AL035071, AP000135, AC000134, AC003029, AC005067, AC005940, AC004491, AC007151, U62292, AL034423, AC002070, AC002430, AC003101, AC006023, AP000031, AC007193, AF196779, AC002314, AC005200, AC005015, AL109758, AD000812, AC004913, AL049780, AL035555, AC016025, AC003007, AC007384, AC003684, Z98036, AL035697, U95740, AL022238, AF001549, AC005694, AC004253, Z84469, AC006511, AL023284, AL034420, AC002429, AC005057, AC004408, AC004156, AL049643, AC005412, AC000353, AP000558, AC006088, AC004983, AF165176, AL031432, AC004477, AL035587, AC000003, AF015720, AC004922, AC005921, AL133245, AF053356, AC002316, AC007565, AC004033, AL035407, AL031659, AC008018, AL031346, AC009516, AL022721, AC005841, AC002306, AC006001, AC005324, AF030453, AC007546, AL049570, AC005102, AJ229041, AC002126, AC002288, AP000513, AC004257, AP000359, AL079340, AC009044, AL022322,
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HTHCG74	7281	578839	1 - 103	15 - 117	
HTHBY73	7282	946168	1 - 347	15 - 361	
HTHBW81	7283	519640	1 - 445	15 - 459	Z43611, H64102, T35364, T29948, Z43604, and F07345.
HTHBW64	7284	746955	1 - 555	15 - 569	
HTHBU25	7285	961627	1 - 541	15 - 555	H03259.
HTHBT36	7286	458387	1 - 304	15 - 318	HI7221, H24439, R24985, R72995, AA447349, and AA984682.
HTHBM85	7287	790305	1 - 471	15 - 485	T69517, AP000274, and AP000104.
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					AA233203, AA233119, AC004214, AB000880, AP000507, and AB000882.
HTHBM60	7288	739707	1 - 397	15 - 411	
HTHBK64	7289	573926	1 - 311	15 - 325	AW188742, AI049955, AI267884, AW021116, AI431513, AI917132, H71678, AA578621, AI984168, AA502532, R64617, AI347603, H29914, AW245354, AI301373, AI446259, W01359, AI915081, F31811, AW162750, AA654482, AI912401, AA988600, AW023111, AA971196, N68472, AW156980, F24745, AI734837, N72717, AI961983, AI417469, AA558404, AA182731, AA593257, M87889, AI049759, AC002492, AC006965, AC002302, AC008101, AL031283, AL035405, AF047825, AL035659, AL035071, Z95115, AL008715, AL049869, Z98950, AL049697, Z82206, Z83838, AC005086, AC008134, AC005480, Z93241, AF196972, Z95116, AC006312, AL133245, AC005755, AC004531, AL022336, AL022313, AC007676, AC006480, AL139054, AC004966, AL096791, AL049760, AL049834, AC007055, AP000248, AL022320, AC002551, AP000689, AL031848, AP000252, AP000557, AC002314, AC007688, D87011, AB016195, AC005207, AC002404, AC005231, AP000502, AL031311, AC008033, AC002477, AC008040, Z68273, AC005529, AC004216, AC006501, AC002365, AP000212, AP000134, AC002504, AL049780, Z83844, AC005544, Z84469, AC004854, AD000671, Z97630, AC007308, AC005102, AC004217, U95741, Z98884, AL133448, L78833, AC004883, AC003070, AP000696, U10087, AC005821, AP000036, AC004955, AC002565, AC007011, AF031078, AP000100, Z94162, AF088219, AC006509, AL109865, D87675, AL049766, AC002984, AF030876, AL031594, AL031602, AC004859, AC004967, AL031281, AC005049, AC004849, AC005476, AL049569, AL049873, AC005274, AC007292, U85195, AB003151, AC000353, AC005089, AC004143, AC009247, Z84487, Z99128, AF001549, AL121658, AC002312, AC006088, AL022323, AC004876, AC007842, AC004656, AL022165, AC005880, AP000098, AC005300, AC003962, AF165926, AC002425, AC006117, AC005484, AC009721, AC008009, Z95114,

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HTHBK47	7290	526705	1 - 298	15 - 312	AA085410, AI417464, AA857673, AI277373, AI439816, AI278440, AA490602, AA480162, AL119411, AA663472, AI620992, AA657835, AA772016, AA743811, AA719208, AI051037, H79308, AA992126, AA121910, AW157005, AA865262, AI028510, AW019964, AI547110, AW328446, AI332615, AA808036, AA610313, AA079076, AI860535, AA223512, T47324, AA525423, AA857296, AI435639, AL119284, AA701119, H51538, AW105714, N94134, AA507837, AL119483, AI818505, AA442528, AA196390, W07101, AC005578, AC007263, AL13448, L78833, AC004813, AC005215, AC004517, AL022315, AC003006, AC005484, AC006449, AL031659, AD000864, AC005175, AC004476, AC003007, Z98048, AC005057, AL109984, AC007686, AC005624, AC004584, AL021546, AL022316, M89651, AC003982, AC004963, AC006050, AC005356, AC005520, AC007546, U62293, Z82189, AC004905, AC005632, AC000134, AC007707, Z83846, AC004408, AC006251, AC007421, AC004000, AL008582, AC005089, AL022326, AC005668, AC004491, AL096763, Z97054, AC005765, AC005837, AL009181, AL022318, AC004991, Z83844, AC002126, AC005411, AC006252, AC002997, U95090, AL020997, Z83826, AC006006, AC005280, AC005480, AC005722, AC006480, AC006509, AC005225, AC002395, AC005239, AC005088, AL023494, AL022476, AC007227, AC007151, AC005488, AC009516, AC004859, AC005094, AC003010, Z98742, AL080243, L34079, AC004953, AC002492, AL096701, AF207550, AL031591, AC005940, U63721, AP000121, AC004752, AF047825, AL023807, U07561, AC006120, U95742, AP000689, AC004686, AC006211, AL022329, AC004526, AC006552, AC007283, AF053356, AD000090, AC000353, AC002394, Z84469, AL135744, AL049780, AC007685, Z83843, AP000043, AP000111, AC005291, AC007055, AL031255, U07000, U91323, AC006146, AC005071, AL023553, AC003026, Z93017, AL122020, AL021391, AL050325, Z49258, AC007868, AL049869, AL109627, AP000116, AP000053, AP000168, Z93241, AF205588, AC002551, AC005252, AB003151, AL117339, AC002316, and Z98304.
HTHBK04	7291	925600	1 - 134	15 - 148	

HTHBH32	7292	699557	1 - 577	15 - 591	W05248, AW137945, N75450, AI758397, AA877636, AA514763, and AW195051.
HTHBG23	7293	410319	1 - 331	15 - 345	AA423943, and AF180425.
HTHBC07	7294	954440	1 - 311	15 - 325	AA383906, AA383905, and AI143579.
HTHBC04	7295	933029	1 - 277	15 - 291	AL048409, AL048408, AA383902, and AA515799.
HTHAA24	7296	575493	1 - 502	15 - 516	AA383837, AA383781, AA767276, AA214296, AA679520, F18098, AA743374, T86730, AW193880, AA136098, AA371011, AL031685, AC004099, AC005219, AL118509, AC005874, AF134471, AL096791, AC004834, Z95152, AC005620, L47234, AL079342, AL008712, AC008044, U52112, AC004762, AL009182, AC005011, AC005899, AC004968, AC006328, AC007450, AC003086, AC003689, AC003043, AC004801, AC003037, AL049709, AC004984, AC002527, AL023807, AF001549, Z94801, Z98304, AL009174, and U93037.
HTGGO27	7297	682376	1 - 432	15 - 446	R73588, AI565226, and AF075029.
HTGGN71	7298	760059	1 - 507	15 - 521	R96968, and AL022722.
HTGGN51	7299	870386	1 - 226	15 - 240	AA595801.
HTGFY55	7300	731360	1 - 127	15 - 141	
HTGFY05	7301	928205	1 - 152	15 - 166	AI751212, T11828, AW270451, AA642445, AA161086, AA569471, AI821379, AA484638, AA630854, AA744400, AC007226, AL050318, AC005484, AC005320, AC004876, U73167, U90094, AC004020, AC004997, AB023052, AC004659, AC005920, AC005585, AC006538, AC009247, AL031311, AC004914, AL031662, AC003957, AL049540, U73640, AC003104, AL022302, AL008723, AC005523, AP000351, AC004150, Z85987, AC000391, AC005874, AF134471, AL139054, AC006077, Z84718, AC002323, Z97988, AC005932, AC005756, AP000513, AP000008, AL031597, AP000215, AL022163, AC005317, AB023048, U80017, AL109952, Z47066, AF200465, AP000704, AL031846, AP000511, AL031283, AL078584, AC005088, AL035415, AL109758, AL078463, AC002559, AC004148, AC005193, AL049839, AC007242, AF117829, U62293, AL033403, Z95115, AL024498, AC006060, AC003009, AC002073, AC005919, AC005666, AC005212, AC002059, AL035450, M17262, AF069291, AC006536, AC006296, Z85996, AC000066, AF067844, AC000379, AL133355, AC004991, AC005844, AL031848, AC002367, U63721, AC005057, AC004655, AC000025, AC004237, AL031666, AL022323, AJ010770, AP000359, AL022324, AC005899, X74558, AL049548, AC004531, AC004950, AL050348, AC003688, AL109827, AF196969, AC004895, AL021579, AL031659, AC007686, AP000251, AC002312, AL031432, AL109853, Z93023, L77570, AC004891, AC006441, AC005487, AC007324, AC002039, AC008101, AC005258, AC006571, AC005081, AL078581, AF001550, AF196779, U95740, AC006480, AL049776, AC007011, AL035086, AC004098, AC018633, AC008079, AC002449, AL133448, AC004167, AL049743, AC004687, AC011362, AC004253, AC004491, AC003965, AC000045, AF111167, AC005527, AC006047, AP001058, AP000348, AL133246, AC000353, AC005207, AP000030, AC004856, AC005914, and AL109798.
HTGFK70	7302	756534	1 - 476	15 - 490	AA195709, and AI381482.

HTGEY89	7303	786057	1 - 434	15 - 448	AC005076.
HTGEY40	7304	711177	1 - 420	15 - 434	
HTGEX10	7305	963862	1 - 1003	15 - 1017	AA252452, AA465260, AI368114, AI803768, and AA678077.
HTGEX03	7306	923445	1 - 355	15 - 369	T40848, W38648, AW103981, AA359366, AA338431, W21392, AA669416, AI364570, H96580, AA323343, T77560, H64482, W40246, AA458804, N91572, N69399, AA665021, AA364224, AI868192, AA411659, Z22622, N35250, AI561255, AI357477, AA747480, AA374705, AW440810, AW439480, AA558716, W94226, AW192297, AI560119, AI037550, W92961, AI061292, AI061134, AA357307, AI572581, AI339182, AI241372, AA876128, AA558402, R76765, AA533450, AI572564, AW316542, AI911901, AI754195, AW328174, AI246796, AA365144, AW383634, AW410086, AI818495, AW339111, AW439646, AI826716, AI978981, AA653975, AA728973, C15093, AA488746, AI273185, AA508509, F12535, AI910609, AI915293, AP000008, AC002553, AC005771, AC005783, L44140, AC009721, AL022476, AL031577, AC004955, AC005532, AC006376, AC004659, X74962, AI035455, AC004841, U62317, AC005043, AL121576, AP000431, AP000210, AP000132, AC005772, AL109984, AC004000, AC006924, AF196969, AC005919, AP000067, AC005229, AC009509, AC005519, AC005225, AP000345, AL023284, AC004134, AI096791, AC007695, AC006501, AC001050, AC008040, AC006040, AC005520, AL096701, AF042835, AP000350, AC007052, AC005911, AC004983, AL050310, AC005015, AP000248, AC004020, Z83840, AL022316, AI239325, AL031276, Z97832, U73479, AB020869, AC002470, AL031289, AC002430, AC004686, AL035415, AL031594, AL049776, AC005484, AC007384, Z98304, AC003950, AC005231, AC002565, AC008015, AC005081, AC004504, AC006367, AC005808, AP000501, AC004799, AC006965, AL121934, AC005320, AC012627, AC007666, AL096678, AC002996, AC002395, AL034421, AL035683, AL031283, AC005678, AC006273, Z85987, U15422, AC006071, AC005391, AL009175, AL022329, L48038, AC000026, AC002559, AC005007, AF146367, AL009031, AC002326, U19759, Z84480, AL034417, AF017104, AC002350, AF117829, Z86090, AC007226, AC004966, AC006312, AF001550, AF108083, AC004033, U95740, AL031665, AC005253, AC005531, AJ007398, AL035587, M27132, AL049766, AC002059, AC005280, AP000227, AL035658, AL024498, AC005057, AL133382, AC005899, AC008127, AC005288, AL080243, Z86061, AJ006996, AL035447, AC007030, Z98048, AP000557, AF124523, AC006011, AC005005, AC006088, Z98745, U07562, AC005620, AC004693, AL121603, AL035668, AL031848, AL031657, AB026898, U78027, AC005332, AC006141, Z82171, AC004685, AL133241, AC007542, AL031282, AC006948, AF118808, AF165142, AC004626, AL135747, AC006116, AC007388, AC005104, AL035422, AC003007, AL121754, AC004381, AC002418, AL121694, AL022165, AL023283, Z99716, AC007193, AC005786, AC006026, AF069291, AC007878, AF190465, AC004531, AL035420, AC005304, AC008038, AC005684, AC004834, AL080277, AC008498, U62293, AC004953, AF118086, AP000100, AC006285, AC004814, AC005387, AL132716, AC006001, AC005971, AC007688, AL049843, AL034379, AC004884,

HTGEU48	7307	721660	1 - 434	15 - 448	and T39860. T94971, T95021, AA501450, AA083328, AI904944, H86416, AA493789, AI817230, AI241637, N68449, AI264579, AI446127, R49266, AA747337, AA972523, H63953, AW151870, W61253, N73203, W26972, AI018726, AA506744, AI188049, AA078509, AA632565, AA683091, AA350406, AA215585, AA774098, AA047849, AI679221, N47855, AW327852, AA806089, N52323, N33851, AA302557, W76645, AA713779, AA133013, AI733856, AA342166, AA827080, AI254781, AA558404, AA525332, AW019995, AW069227, H57324, AW086117, D53046, AA484651, AI025930, AA837325, AI634187, AI207582, AA614647, AI457313, AI933111, N83628, N59744, AI472973, T62955, AA459250, AA371410, AI251144, AI492780, AI820553, D51877, AA317144, AI821342, C14966, AA225548, T65972, AA384911, AI669589, D51927, F17537, AA854782, F34465, AI348944, T06876, D56450, AA551030, AA351893, AA598605, AI885465, AA583579, AA811150, AA862312, R81453, AI969106, AI904594, AI288033, C14627, N70449, AI368862, AA484022, C15184, F33126, C15504, AI904586, AA513189, AI283938, F27229, C14796, AI039761, AA226357, AA468921, AA226356, AA708263, AI859744, AA525517, AI872229, AA434078, AA583568, AA719316, AI889426, AI138299, AA468997, AW008184, AC004001, AL031577, AP000303, AP000046, AP000114, AL080106, AC007041, AF064866, AC005484, AC005737, AB026899, AL049743, AL031428, AC004966, AP000500, AC003984, AC004593, AL121653, AL022320, AC004230, U52111, AC005406, AC002477, AC004703, AL022326, Z94055, AC002107, AC002106, AL049849, AL031433, AC010722, AC008072, AL049569, AC007371, AC007207, AL022163, AL031291, AC004707, Z93020, AC004912, AL035086, AC008124, AP000322, AP000053, AP000168, AP000121, AL031387, Z78421, AL049591, AL035634, AC002559, AL022322, AC004028, AC005208, AC004478, D64108, Z30952, AC004234, Z75407, U91320, AL034400, AL022719, AL0233284, AC005082, AF001550, AC004765, AC005391, AC006255, AL080278, AL034420, Z93017, AC006947, AC006275, AL023879, U78027, AC005091, AL031230, AL035422, AC005280, AL021407, U82083, AL109616, AC006962, AP000221, AP000085, AC006146, AL034379, AC005164, AC004876, AC002509, AC006011, AL031427, AC002091, AC006511, AL132987, AL035088, AC006132, AL121915, AC005300, AC004865, AL035089, AC006946, X06292, AC004388, AC003004, AC003987, AC004790, AC000081, AP000251, AC004764, AL021978, Z81364, AC003014, AL035681, AL049635, AP000116, AP000049, AP000030, AP000212, AP000134, AP000095, AL035694, AC002115, AC006539, AC002468, AP000239, AL031295, AP000311, AC009247, AC005011, AC003084, AC002350, AL117355, AC006538, AC007684, AC005015, AL133711, L47234, AL023876, AC005255, AC003662, AP000087, AC005006, AL031282, AC004817, Z84487, AC006285, AC007447, AC005837, AP000356, AC005089, AC016025, AC006541, AC005081, AF106918, AP000300, AC004694, AL049821, AC004108, AC005841, AP000113, AP000045, AC005213, AC004910, AL031767, AC004972, AC004664, AC004491, AC002365, AL121658, X82877, AL034418, AC003093, AC005393, AC004547, AC006001,
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HTGEG89	7308	786665	1 - 438	15 - 452	AA699670, T87005, AA682585, A1247728, and AA703305.
HTGEG17	7309	662369	1 - 557	15 - 571	AW138672, R01026, AA807185, AA281859, AA281778, and AC008116.
HTGED13	7310	656504	1 - 451	15 - 465	T84646, and AC006487.
HTGEA37	7311	908606	1 - 203	15 - 217	AI040940, and AF129512.
HTGDX37	7312	708877	1 - 531	15 - 545	W95076, N64844, and R92575.
HTGDX10	7313	963854	1 - 631	15 - 645	AA579041, AW238341, AI800426, N72678, H53546, H93717, AI801563, AI791718, AI800706, AI452836, H81406, H68343, AW275432, AW117860, AA676592, AI791659, AA593828, AA873737, AI500645, AI754926, T15767, D44672, AA525753, AI754293, AI570067, AA565911, AI921765, AA602971, AI567868, AW028376, AA342238, AA425924, AI654738, AW272389, N54538, AA015948, AI204309, AA653291, AA314404, AA704040, AA515728, AI619994, AA715876, AW023111, AW151761, AI243793, T40394, F29968, AW173443, AA338289, AI078409, AA484892, AI675615, AI791227, AI927275, AA468975, AI744830, AA128947, AA565232, AI120004, AA493789, AI669421, AA483075, AI354409, AA564587, AI299891, AA603502, AA878058, AI302350, AI079894, AA664126, AI969090, AA610353, AI745116, AI921706, T84117, AI431513, AA534047, AI583532, AI613389, AA572983, AI423034, AI419419, T07903, AI356440, AA701122, AI734155, AA084439, AW151247, AI079553, AI065031, AI984168, AW192930, H47835, AI138262, AW089625, AW148821, AI702049, AA015934, AI358928, AI445699, AI250552, AI280227, AI284543, AA525881, H77492, AI620354, T03928, AI150934, AA055784, AA176604, AI678867, N70044, M77858, AA228778, AW337805, T47138, AW080058, AA744423, AA630854, AA609826, AW265468, AI307563, AA484298, AW051819, AA568127, AW304580, AI254770, AI205181, H09639, AA525517, AI251284, AI251034, AI251203, AI223626, AI587583, AI587565, AI249853, AI633386, AI272649, AI653525, AI378437, AC005247, AC005217, AC004887, AC012085, U91321, AC007376, AC003003, AP000350, AF108083, AC004231, AL031123, AC005914, AL008725, AC005088, AL008719, AC005668, AL035249, AL031311, AC007371, AC005180, AC005598, AC006061, AF030453, AC005486, AL035427, AC004167, AC005531, AF001549, AC005610, AC005045, AC003971, AL132642, AL109628, AC004025, AL049591, AC007363, AC010170, AC005377, AC007221, AC007284, AC004552, AC004526, AL024508, AC004217, AC006480, AC005071, AL035685, AC005094, AL021391, AC008498, AP000065, Z86090, L11910, AC005519, AC005158, AF027390, AL050308, AL133445, AL049778, AC005484, AC004148, AL031003, AL031289, Z98304, AC007842, AC007243, AC005833, AC005771, AC005065, AL080317, AC004685, AC005075, AC005004, AC004069, AC005220, AC007386, AC007381,

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HTGDV61	7314	741381	1 - 569	15 - 583	AA007619, AA251883, AW449640, and AW362295.
HTGDV52	7315	796065	1 - 933	15 - 947	AW301087, AI824945, AW249930, AW410790, AI628800, AW166795, AW273211, AW135164, AI332400, AA826630, AA633504, AW237676, AA902230, AI766293, AA071494, AI659072, AI091356, AI478386, AI824929, AA541660, AI910688, AA970800, AW027494, AA866063, N89610, H23449, W28238, AA918250, N71802, AI206505, AA082316, AW410873, H29625, W92152, AA88964, AI871968, AA678363, AI207283, H99870, AW135165, AA889903, R38069, W67376, T07656, AW205531, AW409867, AI420132, T17353, F10626, AW173167, AI858210, AI380828, AA203347, N62165, AA019630, W92151, AA019449, AW050420, AI269983, AW090725, AI651789, AW243570, AA017312, W22870, AA831409, AW410789, H42669, H42668, AI333511, AF052137, AJ271669, and AB023065.
HTGCQ86	7316	784676	1 - 523	15 - 537	R91710, R96722, and AI248214.
HTGCH60	7317	895628	1 - 715	15 - 729	AA661921, M77914, AW021207, AI270117, AW193265, AA063173, AI284640, AI583283, C18993, AI370094, AI350211, AI370074, AA729697, AI431303, AI036037, AI732378, AI754955, AA587604, AL046409, AI751216, AI687343, AI038705, AA490183, AI696962, AW302013, AA834707, AA658362, AA303007, AA478355, AL046205, AI281881, AA828227,

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HTGCD55	7318	732247	1 - 665	15 - 679	R95094, and N71584.
HTGBS94	7319	578786	1 - 387	15 - 401	
HTGBS70	7320	870405	1 - 108	15 - 122	

HTGBS59	7321	739388	1 - 409	15 - 423	N49021, AC010205, and AC005409.
HTGBS51	7322	578782	1 - 200	15 - 214	AL021453.
HTGBS34	7323	576472	1 - 347	15 - 361	N46749, AI818231, AA082588, AA643801, AL046746, AA112791, AW270258, AA551181, AA174016, AA174017, AA318397, AC004695, AC003682, AL022327, AL136295, AC006374, AC005859, AL031848, Z95152, AF165926, AC005037, AC005669, AC005274, AC007059, AL035398, AC002401, AL050307, Z83822, AL096791, AC009044, AC007263, AC005406, AC005066, AC005089, AC000090, AP000089, AC006084, AL034548, AC002120, AC007165, AJ006996, AL023878, AB026899, AP000350, AF053356, AP001063, X74458, AC006388, AL030996, AC004859, AC005536, AC007406, AL139054, AP000116, AP000049, AL008583, AP000311, AL122020, AC005332, AL022165, AP000501, AC006211, AP000142, AF130343, AL132716, AC004030, AL109801, AL021326, AC000159, AC002425, AL031259, and AC004417.
HTGBS08	7324	959699	1 - 796	15 - 810	N51029, and H68078.
HTGBR52	7325	727276	1 - 378	15 - 392	R37214, H04094, AA781420, and AC004638.
HTGBN58	7326	738229	1 - 221	15 - 235	R37012.
HTGBL15	7327	660483	1 - 504	15 - 518	H64944.
HTGBH09	7328	625756	1 - 158	15 - 172	N71861, and N67954.
HTGBE67	7329	751525	1 - 286	15 - 300	AA482846, AC005152, AL121652, AC002350, AB003151, AP000688, AC005089, AC000081, AC005180, AP000495, AC005899, AC005911, AL035249, AC005154, Z95152, AC000111, AF196972, AP000248, AC005924, AC005071, AL121658, AC008080, AL050334, AC007546, AL096791, AL031602, and AC007868.
HTGBE59	7330	578807	1 - 478	15 - 492	AL031657.
HTGBE05	7331	932168	1 - 405	15 - 419	
HTGAZ86	7332	785594	1 - 528	15 - 542	N63915, AI453245, AW089866, AA557995, and AJ250915.
HTGAZ75	7333	766583	1 - 465	15 - 479	R01774, and AC004985.
HTGAY27	7334	683556	1 - 371	15 - 385	T47772, AI832594, AA552979, T95772, AI954936, AA601033, AI124830, AC005543, AB017654, AC004836, AP000465, AC007057, AC002559, and AJ239322.
HTGAX83	7335	781275	1 - 446	15 - 460	N62263.
HTGAW78	7336	773666	1 - 517	15 - 531	AA731209, AA236961, AA706202, H24953, AW161459, AW161879, AI191343, AI003797, AA936548, AA299422, AA584207, AA659832, AA666066, AW150209, AI439393, AI798407, AW157731, N34258, F31203, AA775127, C14576, AI5336, AI889426, C15180, R68503, AW439724, AA226346, AL047480, AW072443, R99581, R93658, AI564215, W63553, AA297776, C14966, AL037777, AA862312, AI969106, AA609826, AI368862, C15184, C15504, C14796, AA984829, T06518, AI003245, AL046830, C14627, AL024498, AL049779, AL049697, AC007382, AC005207, AC009721, AL021155, AF092852, AL022326, AL034379, AC008015, AC003108, AP000350, Z93244, AC004999, AC005231, AL079342, AP000493, AC005866,

HTGAT92	7337	496307	1 - 489	15 - 503	AB020866, AF196969, AC007314, Z99716, AC005102, AC006449, AC005594, AC005197, AL022165, Z95703, Z68872, AC002559, AC002565, AP000365, AL035695, AC002563, AL035088, AC005822, AL109628, AC002133, AC000112, AC004941, AC005191, U77079, U77081, AL033379, AC006537, AP000958, AL096711, AC004622, AL023513, AC006160, AC004876, AP000310, AL109801, AP000116, AL096677, AC002425, AL022313, AC009247, AC007051, AL133163, AC007919, AL009181, AC006139, AC006271, AF116548, AC004895, AC004152, AL031255, AC004834, Z97630, AF003626, AL049843, AC004916, AL122020, AL031283, AC005089, AC007773, AP000118, U95090, AC007774, AC004703, AD000092, AC005216, AC005921, AF196779, AC006132, AC002528, AF027153, Z69709, AC010077, AP000467, AF196972, AL049694, AL031588, AL035086, Z97053, Z83846, AL035664, AC005903, AC005196, AC006130, AC007368, AC007326, AL034417, AC003075, AL020997, AP000031, AC004492, AC010170, AL121603, AL031291, AC004817, AC004813, AC006117, AC004031, AL034555, Z97876, Z95118, AC005865, AC004773, Z97989, AC007450, AL022318, AC004499, AC006146, AC004985, U77080, U77078, AL031662, AC006237, AC005067, AL109984, AF017104, AL049553, AC016831, AL031651, AB014540, Z82176, AL050404, AL110122, AF191069, AF096876, AC004150, AL031230, AC007993, AL021939, AP000352, AC003084, AC005783, AF116546, AL117354, AC002477, AC004801, AB000876, AC003030, AC002504, AC006597, AF124730, AC004477, AL035070, AC005666, and AC007263.
HTGAT92	7337	496307	1 - 489	15 - 503	AA213676.
HTGAT55	7338	732248	1 - 683	15 - 697	AA033990, and W78755.
HTGAT16	7339	919524	1 - 343	15 - 357	H69643, T19082, T36034, AA578092, Z44861, F08360, R18488, Z42109, R11866, T36046, R54184, Z45556, T89821, AI817898, AA772776, F06240, and AC005332.
HTGAT01	7340	870424	1 - 359	15 - 373	AA731219, and AL034418.
HTGAS15	7341	870423	1 - 433	15 - 447	N63061, and AI039423.
HTGAR44	7342	716740	1 - 470	15 - 484	T60572.
HTGAK39	7343	705634	1 - 412	15 - 426	AA258903, and AL035455.
HTGAJ86	7344	785672	1 - 262	15 - 276	AA001630, and T99029.
HTGAJ73	7345	764598	1 - 477	15 - 491	H83056, T08052, AW373586, and AW373401.
HTGAI96	7346	796541	1 - 605	15 - 619	N75646, AA442831, N64799, AA953995, and AW298012.
HTGAI15	7347	870441	1 - 463	15 - 477	AA693675, AA737318, AA552885, AI674873, AA020850, AI246796, AI801701, AA160481, AL041146, AI824562, AI801591, N29933, H50727, AW270382, AL079843, AA845813, AA458736, AA890235, AA158956, AW407578, F16274, N23896, AA916371, AW405299, AA483771, AA099612, AA121815, AW341892, F25972, F25867, T07287, AW024008, AA199616, AW236342, AA134669, AI302994, AI432814, T16427, AA182569, AE000660, AC003029, AC005207, AL031770, AC005740, AL080114, AC006138, AC006049, AF045555, AP000513, Z85987, AF106564, AL031311, AP000966, AC005900, AC005081, AL109847, AC004858, AP000959, AC007688, AL022320, AC005023, U91321, AF013593, Z68331,

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HTGAI13	7348	955227	1 - 413	15 - 427	H62611.
HTGAD62	7349	754052	1 - 518	15 - 532	AA031926, T10780, and Z73639.
HTGAD16	7350	567432	1 - 1025	15 - 1039	AL037910, AA488746, AI859834, AI623899, AL046409, AW406447, AI284640, AA192278, AA468322, AI343143, AW189068, AA808263, AA814778, AA526193, AI561060, AI431303, AW402458, AA878149, AW276827, AI119691, AW193265, AI281881, AI445815, AI350211, AI963720, AW408063, AI446474, AI613280, AI571512, AW265138, AA342681, T05769, AW277109, AA857296, AI828405, AI284583, AI192631, AI334443, AI270117, AI371249, AA714956, N53150, AI921476, AA829225, AL120976, AI053672, AI079129, AI708009, AA572960, T40077, AI061334, AI375710, AW271904, AI249688, F17700, AA578918, AI688846, AI471691, AW276984, AI174230, AA457685, T40612, R92629, AA814578, AW337954, AI281903, AI623720, AW192330, AI917132, AA579469, H58472, AI755214, AI754567, AI365988, AI769271, AW089810, AA501784, AI520724, AI859946, AA501614, AA577906, AA086318, AA632845, AI160117, AL036283, AA631507, AI590772, AI754105, AL109753, AL031666, AC006285, AC009501, Z96568, AC007371, AC005598, AC007032, AF077058, AC000134, AC004148, U57007, I51997, AL079342, U57005, AC005993, X75335, AC007227, AL049843, U18391, U57006, AC004024, AC005378, X54181, X54178, AL031589, Z84480, D86992, AF196779, AC002476, X54175, U18392, U18394, AL035684, X55925, U57008, U18390, X55932, U18398, D88270, U91321, AC004257, AC002492, AC005620, AF015153, AC004821, AC005538, X54179, AC006449, AC000070, AJ011930, AC004168, U57009, AC005385, X55924, U18395, U18393, X54176, M37551, Z22650, AC005778, AC006511, AL109628, AL132712, X54180, U67801, AL031257, X54177, Z93341, AL023553, AL022320, AC003107, AC006537, AC008275, AL096701, X55926, AC002544, AL096774, AL117352, X55923, AL050338,

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HTGAD05	7351	932378	1 - 359	15 - 373	AA136219, and AA136122.
HTGAC17	7352	664513	1 - 207	15 - 221	N32296, and AW294045.
HTGAA80	7353	574099	1 - 263	15 - 277	AA767660, T59612, H63465, AI624244, AA513983, F13808, AA078539, AW020088, AC006249, AC005377, AC007637, L29766, AC002544, AL034423, Z93016, AC005015, AD000092, Z98885, AL132987, AC004802, AC007540, U91326, AC009247, AC004887, AC007227, AP000359, AC004678, AC004448, AC006581, U66061, AC005102, AC005696, AL035695, AC002301, AC000067, AC006211, AC006046, AL022315, AC005484, AL035458, AC004894, AC005632, AC005595, AC000396, AL022312, AC004859, AL022238, AL022320, AC006057, AL049636, AL049776, AC006501, AC004797, AC003030, L78810, AC004968, AL035086, AL034417, AC002316, AB000877, AC007056, AC005500, AC007537, AL109758, AC005071, AC005670, AC004883, AC004820, AL035423, AC006064, AC002511, AL031283, AC006463, AL139054, AC002996, AC005736, AC005291, AC005041, AP001116, AC004851, AL034420, AC006088, AC006468, AC000025, AL022336, AL049569, and AC005207.
HTGAA44	7354	574114	1 - 252	15 - 266	AA157291, T47205, T47206, and AF108459.
HTDAC74	7355	765656	1 - 446	15 - 460	AI936530, AI697020, AA025283, AW268465, AA449313, AW264405, AI378679, AI081908, AI031534, AI377811, AI275521, AI377061, AI432300, AA234506, AI363281, AW272480, AI800544, AI194935, AA421721, AW168455, AA476738, AA449948, W38696, AA470900,
HTDAB18	7356	870746	1 - 1454	15 - 1468	

HTBAB07	7357	954434	1 - 447	15 - 461	AA195534, N94923, AI435923, AA234120, AW269667, AA086243, AA292106, W37558, AI253127, AA112193, AI266499, AI215742, AA889883, W37218, AI265961, AA292105, AA479162, AA878762, AI142708, AA683553, AA410515, AI280280, AA683562, AW132000, AI301437, AW008356, AA889825, AA249058, AF045573, and AF115510.
HTBAA86	7358	785846	1 - 408	15 - 422	AA179994, AA382187, and AL049557.
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HTAJPI2	7359	969518	1 - 426	15 - 440	AI924900, AA887916, and AL096755.
HTAJD72	7360	880561	1 - 232	15 - 246	H57855.
HTAIY90	7361	973870	1 - 398	15 - 412	AC006121.
HTAIQ05	7362	930947	1 - 345	15 - 359	AJ003440.
HTAIG58	7363	838701	1 - 495	15 - 509	W26273, and W28557.
HTAIF22	7364	910040	1 - 452	15 - 466	

HTAIF11	7365	965738	1 - 515	15 - 529	AB002347, and AL049843.
HTAHZ02	7366	918304	1 - 264	15 - 278	
HTAGB16	7367	870855	1 - 567	15 - 581	T85562, AW161607, and AI879090.
HTAFC92	7368	790991	1 - 406	15 - 420	R18870, H17731, R22698, A1681962, R54247, AC004882, AC004531, U91323, AC005529, Z84484, AC005544, AL132712, Z81364, AC004832, and AC008372.
HTAEV23	7369	959129	1 - 810	15 - 824	AI096883, AA476998, AA019020, AL120070, AL046807, AL042275, and D43949.
HTAEP05	7370	932459	1 - 539	15 - 553	AI125151, AI298755, AI025239, AW294401, AW292459, and U62317.
HTAEK41	7371	870858	1 - 309	15 - 323	AF132607, and AB006626.
HTAEF68	7372	753597	1 - 156	15 - 170	H20766, and AB002339.
HTADW88	7373	425065	1 - 234	15 - 248	
HTADW52	7374	537376	1 - 156	15 - 170	AL133448.
HTADO10	7375	968307	1 - 190	15 - 204	Z41228.
HTADB68	7376	753598	1 - 528	15 - 542	T91391, AW299806, and AW299816.
HTACX05	7377	932467	1 - 649	15 - 663	W05789.
HTACW82	7378	778852	1 - 360	15 - 374	R02728, AA699715, AI052571, and AL133404.
HTABK47	7379	720684	1 - 695	15 - 709	AA004882, AA677920, W88950, AA677748, R95883, AI889377, AI687430, AA381958, AI693929, N77387, AI870875, AI937184, AI942476, AW070884, AA431317, AW082772, AA093356, AA931129, AI953855, AA828290, AI199606, AI369307, AA005088, AA889621, AI087410, N52427, AA879140, T74882, AI862944, AA994314, AA807241, AI310814, AI864552, AA740575, AA694382, AA889068, AW392436, R51112, AA804805, AA215997, AI184967, AA807932, N95470, R69182, F29171, AA431669, AA429112, AC005480, and AF132944.
HTABE12	7380	971524	1 - 246	15 - 260	AA381579, and H69131.
HTAAO12	7381	972231	1 - 707	15 - 721	AW083187, AA381398, AA367305, R50884, AW376970, AW376967, AA186803, AF123887, AF144695, and AR018794.
HTAAB06	7382	960796	1 - 373	15 - 387	AI732331, AA574361, AA381015, AA574404, AA574322, and AA584423.
HTAAA45	7383	518652	1 - 384	15 - 398	AA381161, AA381160, AA635976, AA845212, AA582554, AA528390, AA847508, AA847427, AA121777, H69089, AA484892, AA729070, F17312, AA740571, N66684, F35684, H93293, AA741403, AW151761, AA568204, AA570740, AA483606, AA243976, AA557945, H53217, F19606, AI798493, AA714011, AI306232, AI251576, AA907411, AW081303, AW189384, AA579208, AI915081, AA488419, AA862243, AA714282, AI583466, AA523695, AW274191, H66577, AA482954, AI270476, AA832145, AA635150, AA526724, H63660, R95840, AA584482, AA669407, AW089950, AA573564, AI476017, H58393, AA599080, AI223968, H19684, AA584489, AA973261, AA470567, AA574442, H60249, T57767, AI872229, H53109, N72170, AA670267, AI962030, AW337526, AI590404, AI623764, AA661590, AA610509, AA833896, N93272, AA679625, AA215470, AA833875, AA595547, AA829044, AF001177, AC005306, AC006241, AF207550, Z69890, AC004966, AL009183, AL139054, AC005730, AC006509,

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HTAAA31	7384	693527	1 - 286	15 - 300	AA380933, and N41495.
HT4AY23	7385	973773	1 - 444	15 - 458	AL031657.
HT3TA67	7386	752169	1 - 470	15 - 484	R56611, H06924, R25038, and AW380697.
HT3SH28	7387	508061	1 - 228	15 - 242	
HT3SA81	7388	589206	1 - 303	15 - 317	AI660664, AA380785, AA063001, AA740970, AI473914, AJ000553, and AF051325.
HT3SA80	7389	781631	1 - 339	15 - 353	AA773463, AA828637, AA566084, AA133596, AL042667, AL042670, T50676, AA488419, AA076418, AI635609, AA156147, AA599199, AI754170, AA557945, AI536834, AW069412,

HT3SA71	7390	766391	1 - 402	15 - 416	AI431513, AA225795, AI223968, AA988610, AI538236, AI370470, AA015948, R67038, T10218, AI791659, AI307563, AA515728, H81406, AI282821, N94342, AW29936, AW272740, AA613761, AA864426, AA632765, AI811201, AW238341, AI434037, AI079894, AI570943, AA262752, AW161016, T34066, AA719564, AA779783, AA079421, AI969090, AA133293, H53546, AA713769, AI758424, AA280509, AI567676, AA572983, AA019068, AI080732, AI049701, AI963856, H72943, AI278972, AW105729, T51436, AW149241, AA676592, W69639, AA579082, AA528644, AA584756, AF053630, AP000354, U15422, AC005839, AC002310, AC005057, AC020663, AC005399, AC005412, AC006241, AI034423, AC000353, AI020997, Z83822, AC006312, AI132712, AC005972, AI121652, Z95331, AC007225, AF196779, AP000131, AP000209, AI035072, AI096701, AP000280, AP000248, AC008372, AI031595, AI132668, AP000696, AF196972, AF134726, AI023284, AI034429, AC004851, AC002302, AF207550, AI118497, AC008126, AI022238, AC006538, AP000359, AC004966, AI022330, AI049795, AC005566, AC005841, AC006270, AC004647, AC004032, AC007327, AC004099, U96629, AC005015, AI133244, AP000050, AC005081, AI022322, AI246003, AC005736, AI096791, AC007207, AC007686, AP000022, AC007376, AI139054, AP000117, AC005324, AI049834, Z84466, AC007917, AI049838, AC006011, AI021391, AI034420, AC004531, AF047825, AI109627, AP000115, AI031228, AC004382, AI049759, AI020995, Z86090, AC002347, AC006071, AC005365, AF053356, AI121658, AP001052, AI030996, AC004988, AC004975, AC007182, AC004257, AC005304, AI035071, AI080317, AC006388, U89335, AC004084, AP000692, AI049569, AC002400, AF045555, AC004814, AC006057, AC005102, AC007537, AC007308, AF088219, AC006026, AC007690, AF196971, AC008044, AI022069, AP000691, AC005531, AC005189, AI117330, AP000553, AI022316, AC002350, AI003147, AC005666, AI049776, Z98884, AI049757, AC004659, U85195, AF187320, AI121769, AI022311, AC004216, AC002128, AC006139, AC004815, AI080243, AC005046, AC007685, AC002425, AC003043, AC007688, AC005071, AI133448, U78027, AI079339, AC007637, AI022312, AC006960, AC007371, AC004859, Z83844, AE000658, AI031311, AI096712, AC007955, AC002470, AC002565, AP000355, AI032821, AC002559, AC005006, AI034379, Z82182, AB023049, AC008012, AC005363, AC004517, AC007546, AI031431, AC008394, AC007450, AI008635, AC002301, AC007617, AC004883, AC005821, AC004841, AP000163, AC004134, AI021546, AP000514, AC006130, AB017602, AC006511, AC003037, AI034553, AC005920, AC002117, AB000877, AC004223, AC000025, AI122020, AC004792, AD000092, AC005480, AC002477, AC006111, AI078638, AC007014, UI0087, AC008154, D87012, AI031295, L78810, AC004019, AC011311, AC004905, AI009181, AF111167, AI117344, AI031780, AC005726, U91326, AC007993, U47924, AI049872, AI035682, AI031584, AC002544, Z94801, AI049832, AI035422, AF104455, AC005779, AC005837, AC006487, AI021808, AF030453, AI021707, AC002546, AI031680, AC004973, AI031602, Z68226, AC003669, and AC006084. AA812058, AI135696, AA569648, AA659324, AA569667, AI043351, AA470899, AA449997,
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HT3SA56	7391	522757	1 - 404	15 - 418	AC000120.
HT3BK75	7392	766488	1 - 366	15 - 380	R74031, AI131053, AI288514, AW207346, and AI239976.
HT3BF33	7393	527782	1 - 287	15 - 301	
HT2TA82	7394	522751	1 - 349	15 - 363	
HT2TA37	7395	522754	1 - 318	15 - 332	
HT2SA86	7396	524290	1 - 421	15 - 435	AA485578, T74382, AI818921, AA584167, AL042906, AL042905, AA489939, T60544, AI250281, AL042539, AI016704, AA708108, AA525824, AA665160, AA601348, AL048090, AA574077, AA224525, AL048060, AA837035, AA632821, AA601376, AA425283, AA847507, AI065031, AW263396, AA501821, AA342040, F27846, AA533725, C16675, AA379965, F29968, AI926104, AA661583, H93404, AI919048, AA372949, AA477103, AW166611, AA834816, AI345157, AA702206, AA720732, AA349437, W01265, H73230, AA083046, AA634889, AI587565, AA314494, AI174703, AA767660, AI587583, AA515048, AA496895, AL044701, AL133861, AL040054, AW131457, AA365135, AA525753, AA351056, AW021847, AA134720, AA524804, AA502860, AW438643, AA577824, AA577959, AA188664, AI003068, AW265735, N54397, AI890236, AI350211, AA489571, AI872020, R33941, AI547110, AA747469, AA600202, AI445674, AW087537, AA847499, AI367887, AA372312, AA714011, AW364981, AI049999, AI499954, AA152404, AI588877, AI149528, AA714806, AA248710, AW275788, AC007263, U80459, AC005225, AP000557, U82828, AL049829, Z98051, M63544, U95739, M63543, AC007182, AP000113, AL049776, AC005488, L78833, AC006064, AC004242, Z97054, AC005365, Z93244, AL035587, AL035458, AC000353, Z83838, AC005015, AC005837, AC004520, AC002301, AC005821, AC005899, AF109907, AL050307, AC010205, AL031295, AL031774, AC004975, AC006344, M89651, AC006538, AP000299, AL049697, Z83840, AP000556, AC007546, AF039907, AC005778, AC005913, Z97876, AL133396, AC005355, AC006210, AC004156, AC005519, AC005399, AC005082, U91318, Z82206, AC005081, AC005529, AC003009, AL022336, AC007298, AC004858, AP000031, Z98304, AC005971,

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HT2SA63	7397	518341	1 - 414	15 - 428	AA664248, AA768179, AA484892, AW019964, AA077817, AI624379, AI536858, AI356440, AW272640, AI814682, AI291439, AA862075, AW089950, F35684, AI125615, R72242, AI133164, H77505, AW148775, AI699833, AA837771, AI469172, AA483034, F32248, AI130709, T94072, AI537995, AW190277, H86579, AA714449, AA558697, AI915081, AA745410, AL119838, AA584207, AW249541, AI280504, AA441788, F36273, AI791659, AA728861, H63607, AA715351, Z99127, AL080243, AL008582, AF181896, AC004448, AL049758, AL139054, AC004013, AC005036, AC004883, AF141308, AC007421, AC005773, AL049856, AJ010770, AC006947, AL121825, AC004125, AC005231, AC006600, AC005483, AC005911, AL021939, AC005225, AC012627, AC003043, AL031010, AC002980, AP000307, AP000115, AP000501, AC004492, AL031602, AL133246, AC000353, AL031447, AC008044, AC006071, AC001227, AC002101, AC005585, AC004832, Z84466, AL031666, AP000350, AF196779, AP000277, AP000037, AP000105, AC007279, AC005520, AL050307, AC005663, AC005837, AC005602, AL035455, AB017602, AC006011, AC004382, AL022323, AC005399, AL049869, AC005664, AC006581, AC003110, AC005049, AC005914, AF111167, AP001051, AC007227,

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HT2SA50	7398	522771	1 - 580	15 - 594	T90639, AL037825, T77914, T77832, and AL049991.
HT2SA48	7399	508077	1 - 260	15 - 274	AI572364, AI656924, AI678258, and AL023806.
HT2SA47	7400	578704	1 - 326	15 - 340	AA315580, AA629799, R10762, AA737320, AI818532, AI818533, AA069697, AI625427, AW265051, AA857694, AA857054, AA069300, AI246471, N35626, AW079382, AA134390, AA115721, AI189655, AA626764, AA160498, AA321752, R46585, AA662431, AL047467, AA321116, AC006057, AF196779, AL121603, AF050154, Z15025, AC007225, AC004797, Z98743, AP000505, AL133163, AC005670, AC002312, AF129756, AC005529, AP000088, D87675, AP000326, AP000054, AP000169, Y14768, AC004882, AC005089, M19364, AL049760, AC006948, AF196972, AC005049, AC004841, AF045555, AC005081, AC005759, AC004032, AL031255, AC002390, Z68870, AL078596, AL022336, AC006450, AC000125, AC000353, AC002477, AL035249, AC005702, AC006241, AC002347, AC005695, AL096791, and AC007450.
HT2SA38	7401	840184	1 - 388	15 - 402	AC006010.
HT2SA37	7402	695038	1 - 143	15 - 157	Z95113.
HT2SA26	7403	522770	1 - 391	15 - 405	R59568.
HT2SA13	7404	870917	1 - 333	15 - 347	H30696, R84479, AA501947, and AA708614.
HT1TB40	7405	575355	1 - 328	15 - 342	AA312331, AW020150, AI537368, AI521525, AI926102, AA302979, AI242614, W60077, AI791659, AA747234, AI266359, AA968883, AB011116, AC005911, AC005231, AC004851, AC004650, AL035086, AL031282, AC004797, AL031291, AP000503, AC006449, AC007151,

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HSYDH60	7406	949156	1 - 969	15 - 983	AA151562, AI761915, AI313447, W76635, AA137105, AW070219, and AC005358.
HSYCZ04	7407	926955	1 - 447	15 - 461	H38127, T05941, and H49481.
HSYCV01	7408	940661	1 - 509	15 - 523	H82720, AW239265, N36040, N46516, N28649, AA389677, and AC007541.
HSYCS04	7409	926943	1 - 235	15 - 249	AW192637, AA565972, AI888582, AW189338, AI338022, AA687891, AA227233, AA720594, AI016729, AW020150, AI926102, AW169301, AA601376, C14614, AW273256, AA516061, AA630205, N59038, AA463832, AA533660, AI696455, M77888, AA015753, AA595661, AA315052, AI797998, H15535, AI521525, F02478, AL118628, AI537368, AI394182, AA847181, AI439525, AW085626, AA297208, AA525818, AA742781, R45370, AW022368, AA653150, AA253033, AI375085, R60336, AI300608, AA253068, AA299054, AA206681, N53783, AA302979, AL109984, AC004033, AL021707, AC007050, AC004913, AL031722, AL021393, AL133241, AL049643, AC002996, AL080276, AL078474, AL031255, AC007371, AC003108, AL008582, AC004804, AB026906, AC007731, AC005500, AC004019, AF196969, AB032996, AB001523, AC002054, Z93023, AC007073, AL135744, Z98051, Z86090, AC002470, AC004881, AC004017, AL033504, AC002477, Z99129, AF038458, AC005971, AF165926, AF064861, AC006035, AF217403, AC005800, AC005876, AL022165, AC005015, Z82211, AL121603, AC005602, AC008018, AL031432, AC005250, Z84480, AC005409, AC005776, AC006597, AC004072, AL133321, AC008134, Z93241, AL096774, U82672, AL024507, AP000207, AP000129, AC005531, AC002492, U10580, AC005740, AL023575, AC004890, U91320, AL022157, AP000695, Z97056, AL121652, AC007510, AC002350, AC002991, AC006039, AC007421, Z78021, Z95327, AC002310, AC010170, AC020663, AC007664, U78027, AC007387, AP000070, AC006312, AC006581, AC005666, AC002117, AC005225, AC005484, Z83844, AC003688, AC007093, Z98946, AL096757, AL021579, AC007736, AC007226, AL035422, Z81370, AC006486, AL021706, AC005527, AB018315, AL035667, AC007666, AF129078, AC004662, AC006059, AC007381, and AC004549.
HSYBZ51	7410	725586	1 - 485	15 - 499	W39560, and AI216042.
HSYBX42	7411	713630	1 - 197	15 - 211	AA148244.
HSYBW55	7412	731627	1 - 719	15 - 733	N40307, AI186972, AW075597, and AI206271.
HSYBK77	7413	772067	1 - 529	15 - 543	AW338048, H85292, AA256839, AA852539, AI826768, AA009809, AI082750, AW452772,

HSYBH70	7414	756492	1 - 563	15 - 577	W90074, and H58434.
HSYBH16	7415	661807	1 - 858	15 - 872	AI743403, AW207623, H11817, AA019397, R13362, and AA203639.
HSYAV79	7416	928403	1 - 396	15 - 410	AA252919, W94652, AI685537, N35522, N26472, W94613, AI733918, AA399170, N49231, AA936187, and AC007016.
HSYAU07	7417	953032	1 - 658	15 - 672	AA252272, AI114591, AW188427, AA309530, AA216397, AL040521, AI275631, AA858245, AI537772, H65465, AL049766, AC005591, AC004686, AL096791, AL009181, AF129756, AL022322, AC005015, AC005102, AC005940, AC005399, AC004854, Z85987, AL031587, AC005839, AC000134, AC005736, AC008018, AL031005, AC004263, AC005411, AC004449, AC020663, AL031588, AF053356, U52112, AC002544, AL049829, Z93930, U91321, AL049643, AC005914, AC005778, AC007050, AL031295, AC002997, AC002073, AC005237, AC005071, AL031729, AL022316, AC012384, AL049869, AP000962, AF207550, AL132712, AC006948, AC004913, AL109798, AC000353, AC005726, AC006511, AC006241, AC004887, AC007225, Z99716, AC004660, AP000512, AC006120, AC006511, AC007664, AF088219, AL049709, AC005274, AL049780, AC007055, AC006530, AP001053, AC007664, AF088219, AL049709, AC005274, AC006449, AC007227, L44140, AC003070, AF134726, AC005562, AP000065, AL031311, AJ003147, AC007226, AC007308, AL110122, AP000550, AC004020, AC007421, AC004755, AC003663, AC005620, AC005316, AL135744, AP000045, AP000113, AC006064, AC002115, AL034562, AL049759, AC004673, AP000240, AC005924, AC005899, Z82214, Z70280, AC005041, AC004560, AP000049, AC004408, AL031848, AC000097, AL008583, AP000311, AF111169, AC006121, AC006538, AP000116, AC005529, AC006547, AC005363, S56773, AC005317, AC007011, AC002352, AC002425, AL049569, Y14768, AC005619, AC006285, U62293, AL136295, AC005060, AL133163, AC007919, AF015416, AP000556, AC004841, AF196969, AP000505, AL022721, AL031650, AP000248, AC007371, AC009516, AC005360, AC007546, AC005243, U52111, AL136130, AC009247, AC006965, AL133500, AC008132, AL117258, AC006571, AC005943, AC005089, Z92542, Z98949, AC003681, AL035413, AC005486, AC012599, AL117694, AC004050, AC007981, AL008718, AC003006, AL022328, AC003010, AP001046, AC004491, AC006251, AL078638, Z97181, Z81369, AC006130, AL035587, AL021920, Z86090, AC005057, AC007324, AL049843, AC005215, AL021528, AL079295, AC008101, AC004150, AC000026, AC006160, Z83826, AC005081, AL080243, AL133485, AC002492, AC002331, AC007707, AC005512, U91326, AC002477, AC005919, AF030876, AC002350, AP000143, AL121658, AC002059, AC007344, AC005412, AF196779, AC006019, AL022476, AC005701, D87675, and AP000090.
HSYAF81	7418	493771	1 - 499	15 - 513	AA666395, AI016892, AA773310, AA666419, AW117831, AA668617, AW069744, AA864910, H70254, H83088, AF037222, AC004913, AC004791, AL121825, AL078639, and AL022318.
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AA468322, AI865213, AL039187, AL037632, AI890348, AI343143, AA449997, AW268277, AA984263, AI273107, AA715706, AL041924, AA814778, AA947375, AA715814, AI445815, AL079734, AA557486, AA665330, AI870197, AL079834, AI925653, AL041375, AW277109, W23546, AA827231, AL039471, AL120976, AI061313, AI079129, AI623899, AI609972, AI828405, AL041083, AL121210, AI821881, AI821918, AI859946, AI537995, AA492313, AA533408, AI355246, AI923052, AA877817, AA410788, N55019, AA555232, AL037952, AI801701, AL039530, AI282479, AL042756, AL040072, AI446474, AA601680, T17269, AI865905, F29989, AA503258, AA857296, AI813795, AA661948, AW276435, AI284583, AI754013, AL048925, AW271904, AA814578, AA019973, AI754923, AW402458, AA127916, AW277171, AL120579, AW189278, AA503168, AC006965, AL049776, AC005484, AL034549, AC004796, AC005921, AC004894, AC002045, AC004584, AC004519, AF196969, AF001550, AC002039, AC008372, AF015720, AL109963, AC006561, AI229041, U91326, Z98051, AC004068, AC005755, AL022313, AL024498, AP000959, AL050338, AC005254, AC005280, AP000346, Z85996, AC002544, AC004236, AL078639, AC005138, AC006285, AC005971, AC005291, AC003682, AC006138, AC005189, AF001549, AC008101, AC005192, AL035587, U95742, AC007221, AC005520, AC005598, AC005832, AC005037, AC004067, AL034399, AL021707, AC004472, AC004815, AC001228, AC003043, AL035400, AC005004, AC007917, AC004253, AC002375, Z99716, AC010197, AC009516, AL020997, AC004938, AL008718, AL122020, AL031433, AP000555, AC006120, AL121603, AC005875, AP000557, AL008582, AL031055, AC016025, AL023803, AL035694, AC007216, AC005277, AF015722, AC004386, Z98742, U95743, AC006241, AC005585, AC005393, AP000513, AC005046, AC005386, AC006468, AC004821, AC004797, U96629, AC003962, AL035072, AF003626, AC004024, AL049829, AC008040, AC005071, AC006211, AC003029, AC005378, Z83846, AC004148, AL031005, AF126403, AC009464, AC004590, AL022097, AL008721, AC002288, AL031286, AC004596, Y18000, AL035089, AL035683, AP000476, Z98304, AC016830, L11910, AL136295, Z85987, AC007546, AC005288, AL031281, AC004890, AC016027, AL022318, AC004887, AL009181, AP000553, AC005007, AC003051, AC004558, AL050308, Z98950, AC002425, AL080286, Z82194, AC005972, AC007536, AL109802, Z82215, AC005856, AC005529, AC002527, AC006390, AL133246, Z84483, AC006996, AC004098, AC004448, AC007731, AC006318, AC006952, AC005500, AL117337, AL137100, AL020996, AC008498, AL008729, AC006204, AC005701, AL136501, AL031132, AF002223, AC008012, AC004534, AJ006997, AL022238, AC020663, AC011331, D83253, AC002418, AC007276, AJ003147, AC007191, AC004526, AC007324, Z93017, AL096817, AP000073, AC006552, AC002301, AC009399, AC004954, AC007458, AC002470, AL133163, AL031904, AC005839, AC009248, AL110502, Z69917, AC002036, AC005826, U85195, AF205588, AL031667, AC008085, AC005699, AF067844, AC004491, AB020870, AP000514, AP000356, AL023879, AC005220, AC006379, AC005274, AL024495, AF051976, AC005821, AC006480, AL049694, AC008079, AE000658,				
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HSMDBD15	7419	659891	1 - 407	15 - 421		N34175, AA461238, AA092575, and AA331823.
HSMBC78	7420	917244	1 - 644	15 - 658		AA393439, N63936, AW197010, AA460782, AI092889, AI979040, AW197137, AA557383, AA411820, AI150862, AI023305, AI373812, AI654759, AA628727, AW071028, AW104069, AI146710, AI241449, AI379435, AI189274, AI635068, H99871, AI038814, AA918973, AA330584, AI278070, AL079427, AL079426, AA962441, T60742, W22792, AI334806, AW190745, AI042557, AW316719, AI262577, N74491, AI564832, H49267, AA737070, AA707017, AA262472, AA400871, AA844052, AA292705, N22135, AA659903, AI275831, R98400, R37266, AA151662, N68298, AI222529, D12311, AA321005, AI194059, W03193, AI027104, F09558, AI401786, AA554228, F10196, AA327628, D12306, N62683, AI422779, T65152, AI243057, AI197916, N35723, T89270, R37372, F09567, AA401639, T84342, N28556, AA804442, and AC002400.
HSMBA83	7421	780932	1 - 412	15 - 426		N48782, and AW148806.
HSMBA39	7422	715630	1 - 349	15 - 363		AI420669, AI421859, and AC004839.
HSZQ69	7423	754362	1 - 409	15 - 423		R6952.
HSZP83	7424	780400	1 - 496	15 - 510		AA018350.
HSZP65	7425	747422	1 - 333	15 - 347		R34942.
HSZ164	7426	746074	1 - 505	15 - 519		N49506.
HSZ153	7427	727757	1 - 325	15 - 339		T84311, T83011, T85193, and T90202.
HSZG52	7428	726195	1 - 470	15 - 484		H03394, and H04091.
HSZG23	7429	950023	1 - 453	15 - 467		T96724, AA701886, T96613, AL133245, and AL121653.
HSZA42	7430	866817	1 - 315	15 - 329		AC002430, AC007384, AL031311, AC007686, AC003070, AC002470, AL031651, AC005280, AL133448, AP000045, Z95114, AC005358, and AC004815.
HSZA39	7431	705365	1 - 504	15 - 518		AA082591, AC002542, and AC005495.
HSZA06	7432	935451	1 - 351	15 - 365		
HSAYT37	7433	708803	1 - 408	15 - 422		H50833.
HSAYT29	7434	866821	1 - 732	15 - 746		AA501933.
HSAYR63	7435	744333	1 - 414	15 - 428		R98708.
HSAYO42	7436	713793	1 - 457	15 - 471		R21904, R81864, and H04638.
HSAYK93	7437	791546	1 - 680	15 - 694		AA033946, AI655064, AA678527, AA033996, T89763, AA748095, AA554593, AW075801, AA033945, R85174, AI222713, AA873521, and AC004924.
HSAXS16	7438	661933	1 - 391	15 - 405		H79295.
HSAXM08	7439	866838	1 - 785	15 - 799		AA706495, AI187148, T57767, AA565911, AA723299, AA808861, AI361866, AA503298,

					AA775205, AI921765, AA812684, AF001549, AC005736, AC005081, AC004797, U62293, U63721, AP000505, AP000501, AC004990, AC005488, Y14768, AC005730, AC007637, AC005057, AC004991, AC006441, AL031311, AC006064, AC005529, AC006505, AC005261, AC007193, AC002301, AC004253, U95740, Z95115, AL049759, AC005562, AL096701, AL034420, AL049843, AL034379, Z85987, AC007993, AC004655, AF030876, AL031228, AL109865, AC005486, AF190465, AL031291, U91321, AC002558, AC006509, AF196969, AL022316, AL122020, AF031078, AC002544, AC004084, AC005082, Z84466, AC004383, AC002115, AF196779, AC002400, AC005821, AL031295, AC002316, AC002350, AL133448, AP000555, AC006014, AC005288, AL031602, AL021154, AC007707, AC002350, AC005740, U07562, M63796, AL035415, AC006241, AL033527, U62317, AC005015, AC006430, AC005740, U07562, M63796, AC006077, AC005071, AL034549, AC006312, Z84484, AC000025, AC007327, AC003684, AL020995, AC006487, AC006948, AF038458, Z99716, AC005527, AC005049, AC016027, AC006011, AL049766, AC004805, AI003147, U91326, AL022326, AC004417, AL080243, AL132777, Z83822, AC005484, AC004841, AL031276, AC004491, U91318, AC006211, AF111167, AC004876, AC004263, AL049539, AP000692, U47924, AC005067, AC004099, AC007226, AC004983, AC006480, AC000003, AC005696, AC003108, AC016025, AC005911, AL050348, AC004859, AC004067, AC003006, AC004223, AC003010, AL133500, AC005971, AC004167, AC005632, AC016830, AC004616, AC007216, AC006236, AL135744, AC010205, U91323, AL008627, AP000694, Z97353, AL132712, AL031587, Z83844, AC007277, AC006597, AL049697, AC002369, AL023807, AL109758, AC004815, AC009247, AL035400, AC005764, AC006468, AL021394, AL009181, AC005089, AC004967, AC009516, AC006101, U80017, AC006088, AC005274, AC006538, AC002395, AL133555, AC004819, AC004675, Z97054, AC000159, AC005722, AC002091, AC002310, AL031848, AC004033, AC002477, AL049757, AC011456, AC005031, AL050318, AC006115, AC012330, AC004031, AC004534, AC004150, AC005011, AL035681, Z99570, AC005295, AC003109, AL133553, AP000088, Z98036, AC005899, AC004975, AC004821, AC007055, AC005332, AC007731, AB023049, AC005482, AC005500, AP000031, AC005072, AC004834, AC005280, AC004020, AF109907, AC007227, AL022476, AC007263, AP000696, AC002425, AF088219, Z83826, AL049872, AL096767, AL021917, AL035450, AC002314, and AC002070.
HSAXJ95	7440	721825	1 - 547	15 - 561	H23534, AA649201, AA972098, AA743722, AW292515, and AA884319.
HSAXJ93	7441	792516	1 - 440	15 - 454	W31014, and W27097.
HSAXI05	7442	932387	1 - 492	15 - 506	N50573, AI983229, AW149904, AC012627, and AC004004.
HSAXH85	7443	784475	1 - 200	15 - 214	N72959.
HSAXG45	7444	457077	1 - 357	15 - 371	N48850.
HSAXE42	7445	714040	1 - 358	15 - 372	H23933, AI111184, and H46840.
HSAXE33	7446	702673	1 - 413	15 - 427	H53383.
HSAXC55	7447	732368	1 - 470	15 - 484	N71589.

HSAXB89	7448	787069	1 - 210	15 - 224	AI440512, AA001386, and AC008038.
HSAWY92	7449	792888	1 - 649	15 - 663	T85565, W88924, W89181, AL047407, and T85566.
HSAWY81	7450	574184	1 - 432	15 - 446	F30650, AI251429, AA995373, AA664126, H51835, H29914, AA553409, AA456149, AA643784, AA482928, T06210, AW270385, AI750125, AI283938, AA633424, AA230155, AA584765, AW238495, T03900, AW131417, AW341978, AI628859, AA577824, AA833828, AW103406, AI366555, AA458534, H93152, AA180857, AA147521, AA229935, AA808998, AA659832, AW008184, AA443727, AI251024, N27753, AF111168, U07562, AC005520, AC005971, AC007565, AC003042, AC005512, AL109627, AC007546, AC002369, AL049697, AL049766, AC004263, AC005803, AL008718, AL020997, AL031230, AL022313, Z84487, AL133382, AC005377, AL109758, AC004242, U73168, AL020993, AB003151, AC003982, AL121748, AC002554, AC002365, AC004099, AL031005, AL049874, AC004821, AC005666, AL022726, AL049872, AC005480, AC002549, AC005102, AP000501, AP000255, Z99716, AC005300, AC005632, AC012085, AP000688, AC005746, AC005355, U96629, Z85986, AC005081, AC003070, AL096791, AC000025, AL008719, AC002350, AC005037, AC016830, AL049869, AC003109, AC006441, AL133243, AL109963, AC005696, Z77852, AC002091, AC004929, AC006312, AL050348, AC005920, AC005375, AP000213, AC002565, AL035072, AC003098, AC004859, AC004000, AL049830, AC006057, Z98304, AC002558, AP000135, AC002094, AF134726, AL021707, AC004770, AC004895, AL031680, AC009336, AC005258, AL121825, AC007536, AL033392, AF047825, AC006120, AP001052, AC005088, U91326, AL021393, AC007216, AP000499, AC002544, AC004019, AC004228, AJ003147, AC016025, AC007666, AC004678, AC004520, Z95152, AL135744, AC007785, U02051, AC007510, AP000031, AC005332, AC011311, AC005887, AL133371, AC005899, AC007731, AC004551, Z83840, AL008726, AC005500, AC005231, AL121652, AC002425, Z93783, AL049776, AL049843, AP000547, AL008582, U82828, Z98742, AL031281, U95742, U63721, AL109657, AC004049, AL050341, AC005291, AC004253, AL034418, AC006480, AC016027, AC004814, AC007066, AC002301, AL049760, AC006333, AL022165, AC006011, AP000553, AC005189, AL049757, AC004583, Z98950, AC000379, AC004167, AC003010, AC006111, AC006006, AC003043, AC005736, AC009516, Z84469, AC006121, AL050307, AL096703, AC003104, AF139813, AL133448, AL133163, AC004098, AC006241, AC009247, AC005237, AB026898, AC004655, Y14768, AF109907, AC005031, AL031118, AC004764, AC004602, AC010170, AL021977, AC005488, AL035071, AC005527, AC003108, AF196970, AL021391, AC006014, AL109952, AC008015, Z86090, AC007773, AC005070, AP000505, AC012384, AF031078, AL031432, AP000557, AC008372, AC002316, AC006285, AF030876, AC004491, AC004509, AR036572, U91328, AL022334, AL133445, Z97054, AC005013, AC005048, AC002312, AC005328, Z83847, U91323, U80017, X69907, AC006449, AL118516, AC005280, AP000133, U91327, AL049795, AC007537, AC005363, AP000211, AC007845, AL021546, AL022101, AC005837, AP000692, AP000121, and AC006313.

HSAWY79	7451	574182	1 - 356	15 - 370	AA214655, AC004815, AC004975, AC007388, AC004491, and AC004991.
HSAWY33	7452	866861	1 - 451	15 - 465	AI038990, AL135377, AI754544, AL120008, AA633892, AL043217, CI4967, R73754, AA584482, H45136, AA773302, AL120004, AA484145, AC006121, AC005512, AC005924, AP000513, AC002544, AL031311, AC005200, AC005015, AC004841, AC005081, Z98950, AC006468, AL035079, Z79997, U91326, AC005793, AL122020, AC005071, AP000356, AL022318, AC002115, AC007055, AL009179, Z93930, AC003071, AC007201, AL133246, AC005291, AC005913, AC004755, AF001548, AL078611, AL009181, AC007226, AF053356, AC005520, AC004771, AL096791, AF134726, Z98751, AL021918, AC005355, AL135744, AL022238, AL021707, AC005944, AF111169, AL096712, AL031680, AC005006, AL008718, AC004084, AF001549, AC005529, AL031597, AC005755, AC004531, U07563, AL031589, AC002310, AC006449, AC004228, AP000692, AC004922, AL022165, AC005527, AP000553, AL121603, AC003101, AF196971, AC005667, AC005412, AF207550, Z98742, AC005004, AC005280, AL031291, AP000348, AC005932, AC005257, AC005484, AC002984, AP000503, AC004475, AL049694, AC007314, AC005057, AC005839, Z83840, AC005837, AC000379, AC005207, AC004031, AC004000, AL096701, AC003029, AC006064, AC007421, AC007676, AP000045, AC004143, AC005736, AC004878, AL033521, Z82208, AL024507, AC004805, AC004966, U95742, AC004033, AC005233, U96629, U91323, AC006480, AC007057, AL109952, AC006930, AC004167, AC007686, AC005193, U52111, AJ246003, AD000092, Z98946, AC005619, AC005567, AC002347, AP000030, AP000260, AC004797, AC005049, U91325, AF111168, Z84721, U62293, AC002550, AL022322, AC020663, Z98048, AC005940, AC006071, AC004854, AL008582, AC004707, AC007842, AL009183, AC002369, AL035422, AC005225, AJ011930, AC007666, AC004851, AL034420, AC006511, AL049776, Z83843, AL031282, AC002091, AC016027, AC004526, AC004034, AC007216, AP000248, AC005231, AC002312, AC006132, AC009509, AC016830, AC005695, AC002395, AC002316, AC003665, AL021154, AL050308, AC004991, AP000074, AC005632, AC005899, AF129756, AC007546, AF196972, AC005803, AC004079, AC004491, AL031591, AL031685, AC005756, Z98750, AL049697, AC004686, AL109980, AC005391, Z93241, AC008040, AF165926, AC018633, Z99716, AC005519, AC003070, U85195, L78833, Z93017, AC003663, AC005482, AC009247, AL133448, AC004834, AP000555, Z94056, AC012384, AL022237, AC007263, AL031587, AC005668, AC005730, AL049760, AL121655, AC004638, AL021155, AP000099, AC005786, AC004099, AC004816, AC004770, AC006088, AL049780, AC005180, AL034548, AC007845, AL135783, AC006023, AC004409, AC005089, AC005332, AC004659, AL022476, AC016025, AC005701, Z97876, AC004257, AL049757, AP000275, and AP000113.
HSAWW74	7454	765818	1 - 117	15 - 131	R18910, AA758341, AA861341, AA992385, AI066599, AA393305, AA626371, AI803008, and AF199339.
HSAWU12	7455	968804	1 - 464	15 - 478	N55482.

HSAWS74	7456	765819	1 - 541	15 - 555	AA180526, AI937121, AI566831, and AW451269.
HSAWS40	7457	711441	1 - 386	15 - 400	T72682.
HSAWR08	7458	959943	1 - 584	15 - 598	AA725543, AA770210, AA700020, AW206059, AI672358, AA916774, AA699619, AA827289, AW273123, N59203, AI024492, AI032726, AA693821, AI240892, AA767810, AA291268, AA524731, AA765847, AI208858, AI032993, AI049580, AI375573, AI684175, AI188629, W42659, AA993418, AI334247, AI524794, AI215039, AA287974, AA782458, AI824282, AW362905, AA426229, AI796476, AI500031, AA525966, AW021687, AA730421, AA262040, AI613496, R60802, AA769274, AW383419, H18939, AA291339, AI701999, AI797031, AA908871, AA480957, AA235431, AA370678, AA504437, AA626831, AA659009, H51642, H50988, AA664580, W45184, AA203299, AA259009, AA504201, AA778342, AA746717, AA327714, and AL110271.
HSAWO08	7459	959938	1 - 531	15 - 545	AA665641, AI370010, and AA620852.
HSAWL77	7460	772444	1 - 611	15 - 625	H38048, H47680, R89374, T96702, T96595, and AC003663.
HSAWL68	7461	753569	1 - 441	15 - 455	W19521, and H30845.
HSAWK67	7462	526767	1 - 348	15 - 362	AI027141, AI833186, AI885553, AW362249, AA775877, AA586887, AI870575, AC002558, AC007934, Z80774, AL109963, AL034423, AL109801, AL035454, AL133353, AC006361, AC009516, AF045555, AL049794, AC005081, AC006241, and AC004848.
HSAWK32	7463	418690	1 - 293	15 - 307	
HSAWK21	7464	954897	1 - 408	15 - 422	
HSAWK20	7465	866872	1 - 419	15 - 433	
HSAWI13	7466	971727	1 - 635	15 - 649	AA098930, AI018279, and AC007036.
HSAWI11	7467	964949	1 - 333	15 - 347	R36512.
HSAWG44	7468	716820	1 - 560	15 - 574	H56598, H56599, and AA528438.
HSAWF86	7469	675220	1 - 249	15 - 263	H71860, AA091228, and AC000015.
HSAWF52	7470	728598	1 - 326	15 - 340	H85407, and AI373600.
HSAWD34	7471	706928	1 - 459	15 - 473	N39811.
HSAWD24	7472	677435	1 - 222	15 - 236	R02372, AI130993, AA573647, and AI375038.
HSAWD15	7473	660572	1 - 490	15 - 504	H08501, Z41986, and AC008039.
HSAWC55	7474	866890	1 - 725	15 - 739	T61478, AA487542, U07000, AL121934, AC004966, AC003035, AL023580, AP000550, AC002051, AC008018, AL031432, AL022400, AC007664, AC007298, AC007325, AC004814, AC003043, AL031674, AC007324, AP000552, U50871, AC009288, AC012330, Z98941, AL049712, AL121825, AL024509, AP000694, AL022171, AC007708, AL079342, AC006948, AC004659, AC007981, AP000247, AC005841, AL031291, AC005477, AL021391, AC004491, AL110122, AC004765, AC009399, and AC005697.
HSAWB70	7475	757409	1 - 156	15 - 170	R01017, AA043219, AI920902, AA283874, AA833856, AA833870, and H66742.
HSAVZ82	7476	881166	1 - 362	15 - 376	H73704.

HSADVZ63	7477	574195	1 - 360	15 - 374	AA158018.
HSAVY10	7478	968230	1 - 285	15 - 299	AA158018.
HSAVY02	7479	920721	1 - 409	15 - 423	AI267820, AA838103, AI267216, AI267490, and AC005856.
HSAVX22	7480	674919	1 - 290	15 - 304	T78806, and AL049631.
HSAVW13	7481	862754	1 - 344	15 - 358	H71423, and H71422.
HSAVV36	7482	866886	1 - 512	15 - 526	H57122, and T49775.
HSAVS48	7483	721856	1 - 279	15 - 293	H30216.
HSAVQ73	7484	929276	1 - 681	15 - 695	AA192605, AW014772, AI698074, AW243066, AA192606, AI697110, AA677245, AA614646, AW205594, AI270685, AI830046, AA588738, AI476751, AA862842, T91778, AA906049, AA622890, A66648, and AL109983.
HSAVP56	7485	733616	1 - 355	15 - 369	R10034.
HSAVO05	7486	932379	1 - 253	15 - 267	AA639443, and AP001052.
HSAVN72	7487	574129	1 - 483	15 - 497	N70411, and R97430.
HSAVN48	7488	526505	1 - 253	15 - 267	AW021399, AW020094, AI224583, AI610012, AI609984, AA568311, AA425283, AA669238, AA601376, AI609974, AA535558, AI439525, AI754257, AA174108, AI345566, AA525818, AA601333, AW177869, AW265006, AI803771, AA565338, AA551519, H71678, AA533660, AL119691, AA085106, AI433952, AI079553, AI952885, AI909130, AI040313, AI910609, AA568303, R43331, AI832782, AI431232, AI048267, AA493464, AI572680, AA423864, AA831714, X62355, AI136295, AC004802, AI008716, Z81367, AI096703, Z96511, AL121603, AC007421, AP000116, L78810, AI109627, AC006455, AC009516, AC005018, AL049694, AC006211, AC006449, AP000553, AC004812, AC002558, AC000353, U47924, AC006071, AL034420, Z93241, AC005779, AC005015, AC006277, AI096701, AC005740, AC004973, AC004134, AL022316, AC007364, AC004098, AC006581, AI035422, AI035400, AC005387, AL096801, AL050341, AC004686, AC006077, AC005899, AC004921, AC005180, AC006011, AC002045, AL133448, AC010077, AC004703, AC006312, AC005006, AC006141, Z95115, AF030876, AC005755, AC008014, AC005954, Z86090, AP000472, AL031255, AP000125, AC004813, AC005921, Z97053, AL080243, AL035086, AC002316, AF207550, AC011311, AL031673, AC004447, Z81364, AI096791, AC002519, AC006480, AL135744, AC005231, AC006512, AL031657, AC007055, AP000504, AI035423, AC005856, AI031587, AC005225, AL139054, AF031076, AC004897, AF031078, AP000248, AC007191, AC005695, AC005291, U78027, AC005736, AL031281, AC005971, AL034430, AC004685, AP000556, AB001523, AC008115, AL008719, Z83844, AC006511, AC007934, AL021878, AC004648, AC007450, AL035681, AC004859, AC004526, AI078477, AF129756, AC009510, AC006241, AL031315, AC007919, Z82198, AC005668, AC006530, AC005726, L78833, AC004448, AL117338, AC007225, AC005253, AC005785, AC004650, U24498, AC005846, AC004878, AP000696, AC004848, Z84476, AL096766, AC002470, U73634, AC015853, AC005365, AC003029, AC004033, AC002301, L39891, AC003042, AC007283, AL022318, AC005701, U89336,

					AC007160, AC007537, AC005696, AC007308, AF053356, AC004675, AC004834, AC004974, AC004228, AP000501, AC002077, AC009247, AP000557, AC005839, AC006088, AL049780, AP000503, AC006026, AL008718, AC002115, AL049869, AP000172, AC006042, AL034423, AL132777, Z49918, AC005071, AJ003147, AP000057, AL049709, AL035420, AP000008, AC005670, AC002476, Z84480, AL031311, AF088219, K00061, AP000704, AC004030, Z98051, AF001550, AC001226, AL021707, AF045555, AC005207, AC005874, AF134471, AC005529, AC005228, AC004963, AF111167, AC002546, AC006571, AC007637, AL096763, AC002310, L05367, AC005081, AC007021, AP000359, AC004910, AL020995, Z97054, AC003110, AC005320, AL109628, Z84469, AC004491, AC011362, AC005763, AL031767, AC005911, AL121653, AC007051, AC006285, M63796, AC005664, AL031577, AC016027, AC004887, AL023575, AL031009, AF196972, AL030996, AC004797, and AC005933.
HSANV24	7489	574106	1 - 265	15 - 279	
HSANV84	7490	783183	1 - 476	15 - 490	AI023999, T89881, AI719157, and Z83309.
HSANV184	7491	783182	1 - 440	15 - 454	AA626210, AA678261, AI458275, T86534, H96885, H61936, AI247794, W87937, T78644, and AI217194.
HSANV153	7492	728361	1 - 209	15 - 223	T39682, AA905799, AA730277, AW136642, T40726, and AA806155.
HSANVG96	7493	796544	1 - 365	15 - 379	H88813, and AC005876.
HSANVF17	7494	664515	1 - 340	15 - 354	H80433, AA744622, AI688897, and AA834656.
HSANVE61	7495	742076	1 - 446	15 - 460	T89135.
HSANVA79	7496	781800	1 - 282	15 - 296	AA039815, AA091607, and AL035410.
HSANVA22	7497	674977	1 - 288	15 - 302	T97088, and AA639076.
HSANUZ11	7498	967609	1 - 357	15 - 371	AA262765, and AL031005.
HSANUW24	7499	679279	1 - 525	15 - 539	H59291.
HSANUU25	7500	679278	1 - 875	15 - 889	N63710, W86619, AA400277, W90271, N99081, AI078221, W86692, AA148985, AA148984, AA401317, and H90568.
HSANUQ81	7501	866192	1 - 435	15 - 449	F35097, AA773098, AA644090, T47138, AW023111, AA584862, AW410409, AA574077, AA225406, AI921765, AW722294, AW328331, AA904211, AA425924, W96277, AW028376, AI635028, AA740559, AI755202, AI066646, AI275742, AI801505, AI249365, AW084100, AI445934, AI923451, AL046416, AA773463, AI144081, AW302711, AA513851, AI889426, AI439525, AA828637, AI923458, AA427636, AI133727, AI587467, AL045077, AA570255, AA761714, AW301906, AW103406, AA020873, AA683052, AI955029, AA524616, H63660, AA847395, AI243789, AI921744, AI356440, AI523074, AA568747, AI627917, N57681, AC007226, AF159056, AC007308, AC006270, AF196969, Z85986, AP000692, AL136295, AC006530, AC005184, AP000553, AL049780, AC005726, AR036572, U91328, AL031368, AL035659, AL050307, Z95115, AC005972, AL133243, AL121655, U91321, AC004526, AL133289, AL031284, AC005914, AL049636, AC009509, U47924, AC005971, AC003982,

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HSAUQ54	7502	730928	1 - 402	15 - 416	H49169.
HSAUQ44	7503	716847	1 - 342	15 - 356	R23067, and AC004752.
HSAUL84	7504	908440	1 - 356	15 - 370	AI267359, and M77994.
HSAUK72	7505	766240	1 - 267	15 - 281	AA179392.
HSAUK48	7506	883205	1 - 400	15 - 414	N40665, AW404068, AA461610, AA429180, W25197, AA306808, AA329256, AA304978, H95186, AA338381, and AW405457.
HSAUI23	7507	422961	1 - 719	15 - 733	AW139651, AW134619, T77738, and AA668754.
HSAUH06	7508	954543	1 - 413	15 - 427	AA485628.
HSAUH02	7509	917314	1 - 324	15 - 338	AA774114, AA001307, U51281, and AC001228.
HSAUG74	7510	765859	1 - 563	15 - 577	AW300097, N33037, AW293539, and W57798.

HSAUD02	7511	920827	1 - 446	15 - 460	N70288.
HSAUB69	7512	514840	1 - 650	15 - 664	AA077777, AA354695, AI357976, AI090334, AC019014, AC006204, AI251973, AC005940, AI050331, AI009172, Z98304, AC007207, AC005911, AC006042, AI023574, AC004832, AI022067, AI022726, AC005611, AC003684, AI050317, AC007172, AI132777, AI049839, AC000056, AC005354, Z83838, AI121658, AI109984, AP000140, AC003098, AI034420, AI049869, AP000088, Z97876, AI021391, AF001549, AC005740, AC012384, Z82206, AI035587, AC005091, AC002040, AC005067, AC004386, AI035684, AI246003, AI023799, AP000036, AI135744, AF207550, AF015416, AC005399, AC000353, AC005304, AI133163, AI109939, AC006538, AI049611, AP000553, AI049843, AI031311, AC006057, AC006101, AC005215, U89335, AI078624, AI078593, AI020997, AC006160, AC005844, AC005243, and Z97055.
HSAUB39	7513	705677	1 - 400	15 - 414	T96309, AA526387, AI804853, AI818557, and AA935065.
HSATZ81	7514	778268	1 - 348	15 - 362	H83787, H80779, AI741246, AI261722, AF017104, and AC016831.
HSATY22	7515	674986	1 - 389	15 - 403	AA906177, W93403, AA889552, AA889547, AA757340, AI478954, AA906247, AI380565, and AI018570.
HSATW91	7516	790394	1 - 328	15 - 342	T98737.
HSATW51	7517	725879	1 - 538	15 - 552	H99808.
HSATV96	7518	843424	1 - 757	15 - 771	T91873, T84748, AI122618, AA535216, AI884383, AI078638, AP000356, AC005881, AP000128, AP000206, AP000245, AC005225, AC006213, AC004834, AC004216, AC005386, Z68870, AI031602, AI049635, AC004685, AC006449, AC004832, AI022318, AC005233, AC005200, AC005088, AC004967, AC008038, AI031707, AC006205, AC004067, Y07848, AC002492, AC002546, AC002470, Z85986, AF030453, AC004913, AI049776, AI033375, Z95114, AC006285, AC005971, AC006597, AD001502, AC005920, AC000353, and Z98047.
HSATS25	7519	866949	1 - 748	15 - 762	AA504782, AA884955, AA486877, AC004212, AB023050, AP000512, and AF124523.
HSATQ55	7520	732406	1 - 467	15 - 481	R01471, AA191495, AW272663, AI112291, and AC003969.
HSATM64	7521	862436	1 - 1029	15 - 1043	AA074625, AA010341, N79094, N81127, AA010342, AI275020, N62337, AI039035, AA082546, AI632888, AI472260, AI472195, AI003958, W73513, AA234358, AA025769, AA905994, AA977248, AA948588, AA954472, W68348, AI143305, AA922107, AA452878, AI127716, W72476, AI094277, AI589630, W69905, AI216500, AW340339, AI088782, AW055110, AI127337, AI338418, AA722405, AI568823, AI200456, AI659289, AI371712, AI204689, AI243708, AW027897, AI017294, AA993504, AI249161, AW182660, AI351592, AW138347, AI971471, AI189735, AA548686, AI306414, AI420134, AI240611, AA026541, AA595328, C00837, AA041253, AI918959, W68440, AA973316, AA905618, AA877132, AI167501, AI161103, AA905960, AI190826, AA885421, W73344, AA025957, AA341160, F22309, AA460691, W76192, N57271, AA453048, AA779639, and AI873146.
HSATM19	7522	866954	1 - 434	15 - 448	H83017.
HSATM09	7523	456326	1 - 337	15 - 351	T94905, and AF017104.

HSATL02	7524	920825	1 - 488	15 - 502	AA468269, AA468298, and AA468196.
HSAT158	7525	866955	1 - 499	15 - 513	AI336563, AW302011, and AW271091.
HSATE53	7526	728414	1 - 436	15 - 450	T91431, H80874, H53035, and A1909894.
HSATC79	7527	602167	1 - 859	15 - 873	N23278, AI278972, AA679625, AW157731, AI871954, AA410788, AA744018, AW023111, AI251429, AA228778, AI439393, AA715173, AA715075, AI798407, AI066646, AI206841, AI340151, AA535216, AA115863, AA449997, AI189682, AA558404, AA501867, AA602906, AA598892, AI955029, AI923052, AA176604, F30158, AI207424, AI678867, AA644090, AA714011, AI431513, AI357628, AA572983, AA693366, AI564582, N26201, AI061313, AI755202, AI572680, AI471476, AI753488, AI884383, AI587583, AI587565, AA070899, AA491767, AA613624, C06046, AA084609, AI826761, AA622801, AA129746, AI216990, T57767, AI969090, AI744830, AA909816, AW022934, AI356440, AA719433, AW341978, AI249365, AI186438, AL047349, AI355007, AW304536, AA148656, AA610433, AA904137, AA630535, AW104788, T57096, AA837000, AW148792, H93628, F29968, AW243884, AA225226, AI799569, AI925869, L47234, Z95114, AC004253, AI033527, AL031319, AP000045, AC004149, AC004967, AC007388, AF205588, AC004904, AL117337, X60459, AL031683, Z69917, AP000300, AC004019, AF129756, AC000039, AL121820, AC004232, AP000113, AC005527, AC004895, AC007917, AC003982, AC005690, U85195, AP000555, AC006512, AC005529, AC005330, AJ246003, Z92546, AL008637, AC002563, AE000658, Z98884, Z84480, AL121652, AF053356, AC002059, AC003108, AC000025, AP000353, AF196779, AL022316, AL031846, D84394, AL049643, AC004134, AF134726, AC003025, AC006511, AC005484, AL080243, AC005859, AF139813, AP000152, AL133289, AC005183, AC004802, AL035668, AC004148, AC006312, I34294, U07562, AC010849, AC007533, AL021393, AC004228, Z81364, AC005081, AL031311, AC004996, AC005041, AC005015, AC005821, AC005856, L78810, AC007845, AC006449, AC020663, AC007688, AI049869, AL080317, AL024498, AC016026, AC005730, AL023575, AL050321, AC008394, AP000074, AC005911, U91321, AB020864, AC004694, AC004408, AC003007, AC006125, AC005088, AC004231, AL096773, AL133371, AC005971, AL031650, AL049776, AL023803, AC005531, AP000502, AL035072, AC005207, AC006079, AF047825, AP000692, AC002477, AL031230, AC004631, AC005280, AC005071, AL031295, AC004805, AF190465, AC005784, AC007421, AC000072, AC005409, AC005551, AC005632, AC002425, AC006121, D88270, AC004447, Z93930, U89337, AL078603, L77569, AD001527, Z94056, AL122020, AC004491, AC002301, AC005839, U72787, AC006227, AL022330, AL022238, AC004760, AL034429, AC005697, AL024507, AL031228, Z82976, AC004750, AC005043, AB014077, AC004685, AC005598, Z84466, AC004647, Y10196, AC006275, AC004031, AC004851, AC004598, AC005924, AL035587, AL133246, AL096791, AC007536, AL031680, AC009509, AC003002, AC004150, AC004032, AL021453, Z97876, AL049758, AC006473, AC005095, AL096701, Z95331, AP000193, AL117354, AC005874, AF134471, AF064726, AL022396, AC005156, AL121852, AC004517, AL034420, AC004209,

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HSATC72	7528	761511	1 - 424	15 - 438	AA036730, AW021633, AI866854, and AA122729.
HPSAD92	7529	790524	1 - 419	15 - 433	R05270, AW044641, AI167940, AW057522, AA371645, and AL035652.
HPSAB26	7530	429558	1 - 324	15 - 338	AA371620, AA371621, AI160117, AI268959, AA827231, AW263864, AA507169, AL037910, AI347810, AI673731, AI889923, AW408063, AA878149, AA526193, AI859834, AI150670, AI431434, AI433247, F32171, AI360514, AA127486, AA814510, AA437416, F17700, AI859946, AI049831, AW028908, H05073, AA557486, T17269, AI908093, AA857381, AA136122, AW327624, AI979005, AL120976, T40799, R92640, AA53448, AI343143, H62778, AA148656, AA830594, AA508873, T32050, AI216054, AI538812, AA528480, W23546, T05769, AA122223, AI538540, AA492313, AI582890, AA663966, AI251111, AW029576, AI252506, AA845659, T40612, AI569982, AI276298, AA297538, C14692, AI343113, AI623899, AW062724, AA279919, H55878, AA827978, AA515224, AW193493, AA702618, AA501614, AA837646, AI832865, AI244254, AA916022, H57826, AA487542, AA769606, AA533408, N39097, AL079734, AI783911, AA347927, AW079809, AI821881, AI079129, AA720732, AI821918, AA716755, AI865213, AI473849, AA223249, AC005261, AL031846, AL008721, AC008498, AL033504, AP000502, AC006511, AF134726, AL080243, AC005180, AC004019, U91326, AC004841, AC006077, AL022326, AC004033, AL031767, AL031255, Z99291, U95740, AC005393, AC004967, AC005332, AL022318, AL133246, AL031733, AC002543, AL033392, AC005837, Z85986, AL049766, AC002073, AC002544, AC004675, AC007876, AL031650, AC007055, AL022353, Z98036, AC002036, AC006445, AC005951, AC005102, AF088219, AC006023, AC005154, L32588, AL022163, U51560, U73638, AC005406, AC006538, AB016897, AF091512, AL133448, AF001550, Z80896, AC002425, AC006322, AC005057, AL031685, AL031274, AC002549, AC006016, AP000356, AC007546, AC006571, AC005878, AC005088, AF064861, AC002119, AC007565, AC005358, AC000052, D32202, AC009464, AL109623, AC004453, U62293, AC002418, AL022165, Z85987, AL110503, AC004996, AP000302, AC006127, AL049872, AP000503, AL034549, AC005399, AF117829, AC007240, AC004386, AC005071, AC005037, AC005484, AB023051, AC006236, AC004878, AC006316, AC002045, AL049554, AL049641, AC007387, AC006013, AL035455, AC005082, AC002316, AL021706, AC004477, AC006398, AC002094, AC005740, AP000114, AP000046, AC007686, AL109829, AL035587, AC005197, AC003043, AC004659, AC005095, AF104670, AC005899, AC005551, AC005988, AC007934, AL035684, Z99716, L29766, AC002350, AC005004, AF188679, Z83846, AF107885,

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HPSAB24	7531	518747	1 - 411	15 - 425	AA371616, AA371617, AA626748, AW167330, AA468956, H07953, T74524, AW271069, AA501867, AL250552, AL284543, AA570740, AA483606, AW264901, AL251284, AL251034, AL251203, AA053463, AW408767, AA113126, AW303098, AL254770, W03333, AA568204, AL249853, AC006211, AL035587, AC002476, AC005488, AC005015, AL132712, AC005619, AF001550, AC002310, AC007774, AC005722, AC005940, AC002350, AC002303, AC004491, AE000658, AP000113, AC004216, AL109759, AL031295, AC006511, AC006509, AC005071, AL022316, AC005081, AL049759, AC005519, AL121658, AP000299, U85195, AC004148, AC004878, AC004966, AC007055, Z83846, AF134726, AL031662, AP000553, AP000695, AL133448, AC003010, AC006014, AC004973, AL133245, AL022312, AC006088, AC002375, U95742, AL136295, AC005736, AC006126, AC004453, AL030996, AP000696, AC006441, AC006006, AC003982, AL023807, AC005324, AC004905, AC007371, AL109628, AC005291, AL031848, AC005529, AL050307, U91318, AC007536, AC005516, AB023049, AC005899, AC004000, AC007308, AC004099, AC004883, AC006387, AC007216, AL049653, AC004990, AC005527, AP000692, AL033527, AL021154, AL031588, AC005920, AP000045, AF003626, AF205588, AF053356, AC004876, AC005971, AC006449, AC005037, AC004024, AL109984, AF111168, AC005856, AC004797, AP000501, AC006115, AL009181, Z95114, Z97055, AL049646, AC007030, AF001549, AC006011, AC007938, AC002425, AP000552, AC009516, AF045555, AF001548, AL021579, Z98304, AF129756, AL109627, AC006285, AC005231, AL022302, AL022326, AL035249, AL049794, AC003684, AC006064, AC007151, AC005482, AC005011, AL035659, AC003036, AC005377, AC004832, AC004815, AP000512, AL133246, AL022327, AC000353, AF196969, AC002470, AC006001, AC009509, AL133445, AC004985, U47924, AC005280, AC005962, AP000350, AC007011, AC004791, AC002480, AC007842, AL031276, AC004448, AC002126, AF001552, AC016025, AC005796, Z84480, AL096791,

HPSAB15	7532	503600	1 - 405	15 - 419	AC006077, AP000038, AC004025, AC007981, Z99716, AL096712, AL022334, and AL139054.
	7533	793000	1 - 480	15 - 494	AA371610, R08528, R05340, and AC003070.
HPSAA94	7532	503600	1 - 405	15 - 419	AA371578, AA371577, AI380617, AA515048, AA176978, AA654874, AC009516, AL031681, AC006388, AC005049, AC007216, AF001549, AC004966, AC005225, U82828, AL031432, AC006333, AL023803, AC005778, AL049843, AL031427, AC005874, AF134471, AL133245, AF033356, AP000557, AL022336, AL035587, U52112, AC007225, AC004685, AL031295, AL034548, AC007371, AC005821, AC005971, AC004167, AC006511, AC005822, AC006449, AC007546, AL135744, AC005081, AF111169, AC006141, AC005102, AC004854, AC005562, AC006006, AC005529, AC004000, AC004953, AF111168, AC006480, AC004883, AC005409, AL022326, AL050307, AL022238, AF205588, AL109627, AF030453, AC000004, AC005694, U91321, U85195, AC005088, AC004983, AC006597, AF207550, AC006080, AC004253, AC004950, U91323, AC005089, AL022476, AC003982, AC006061, Z93023, AL133382, AC005399, AC004687, AE000658, Z83845, U47924, AC004084, AC005796, AC020663, Z68756, AC006057, AC006312, AL023575, AC006040, AF038458, AC006211, AC000085, AC005920, AC002470, AC007387, AL031680, AL008582, AC002302, AC005670, AC002996, AL034582, AL022165, Z99289, AL078638, AC005280, AL096791, and AC002425.
	7534	867387	1 - 603	15 - 617	AA371576, AA371575, T80831, N63149, AW088557, AW300749, R96650, AA665304, AI433131, AI537222, AI362442, AA809635, N71033, AI251576, AW297815, AI306232, AA833896, AA833875, AL049653, Z98304, AC005921, AP001052, AL080242, AC002425, AC005722, AC007283, AC007690, AC004659, Z95114, AC005529, AC004983, AP000692, AC005386, Z93024, AC003669, AC005821, AP000355, AL031281, AC004841, AC005351, AC004099, AL022316, AC005632, AC007406, AP000039, AC005261, AC006449, AC004216, AP000280, AL133448, AP000555, AC002483, AC005015, Z83844, AP000107, AL022326, AC002477, AF051976, AL109984, AL049829, AC004993, AC004106, AL049709, AC005280, AF109907, U91328, AC004707, AC004985, AP000356, AR036572, AL049776, AC005037, AC002352, AL021579, Z99495, AC002350, AF111168, AC006101, AC005726, AC003042, AC004703, AL050332, AC005088, AC002395, Z93023, AC004865, AC002045, AC005102, AC003108, AL049856, AC004020, AB015355, AP000065, AL022302, AL009181, U62317, AF001549, AC002533, AL033392, Z95115, Z83840, AL021977, AC005527, AC006023, AL049694, AL031289, U91318, AL049867, AC008040, AC007687, AC008101, AC007371, AC005839, AL079342, AC005695, AL034420, Z98048, X64467, AC000025, AC004526, AC005004, AC007630, AC005670, AC005914, AC002984, AD001527, AL035079, AC005215, AC005520, AL022313, AC005620, AC006121, AC004832, AF134726, Z99716, AC005740, AC004408, AC006057, L78833, AL133353, AC005874, AF134471, AP000152, AL031659, and AC007073.
HPSAA93	7534	867387	1 - 603	15 - 617	AA371576, AA371575, T80831, N63149, AW088557, AW300749, R96650, AA665304, AI433131, AI537222, AI362442, AA809635, N71033, AI251576, AW297815, AI306232, AA833896, AA833875, AL049653, Z98304, AC005921, AP001052, AL080242, AC002425, AC005722, AC007283, AC007690, AC004659, Z95114, AC005529, AC004983, AP000692, AC005386, Z93024, AC003669, AC005821, AP000355, AL031281, AC004841, AC005351, AC004099, AL022316, AC005632, AC007406, AP000039, AC005261, AC006449, AC004216, AP000280, AL133448, AP000555, AC002483, AC005015, Z83844, AP000107, AL022326, AC002477, AF051976, AL109984, AL049829, AC004993, AC004106, AL049709, AC005280, AF109907, U91328, AC004707, AC004985, AP000356, AR036572, AL049776, AC005037, AC002352, AL021579, Z99495, AC002350, AF111168, AC006101, AC005726, AC003042, AC004703, AL050332, AC005088, AC002395, Z93023, AC004865, AC002045, AC005102, AC003108, AL049856, AC004020, AB015355, AP000065, AL022302, AL009181, U62317, AF001549, AC002533, AL033392, Z95115, Z83840, AL021977, AC005527, AC006023, AL049694, AL031289, U91318, AL049867, AC008040, AC007687, AC008101, AC007371, AC005839, AL079342, AC005695, AL034420, Z98048, X64467, AC000025, AC004526, AC005004, AC007630, AC005670, AC005914, AC002984, AD001527, AL035079, AC005215, AC005520, AL022313, AC005620, AC006121, AC004832, AF134726, Z99716, AC005740, AC004408, AC006057, L78833, AL133353, AC005874, AF134471, AP000152, AL031659, and AC007073.
	7535	503543	1 - 263	15 - 277	AA371574, and AA371573.
HPSAA91	7535	503543	1 - 263	15 - 277	AA371574, and AA371573.
HPSAA75	7536	503544	1 - 303	15 - 317	R16798, AI247531, AI638195, AI209197, AA978119, AA371428, and AA551295.
	7536	503544	1 - 303	15 - 317	R16798, AI247531, AI638195, AI209197, AA978119, AA371428, and AA551295.

HP5AA41	7537	503569	1 - 428	15 - 442	AA371564, and AA371563.
HP5AA30	7538	503567	1 - 454	15 - 468	AA749134, AA766711, AA824619, AA371550, and AA371549.
HP5AA03	7539	960941	1 - 547	15 - 561	AA371507, AA834650, AA371508, AA362349, AL021579, AL080243, AL049776, AF165926, AP000030, AC005071, AP000552, AC004797, Z83847, AC006101, AC005821, AC005921, AC005562, AL034420, AC007536, AC005551, AC006236, AL031311, AC005015, AL121658, AC007546, Z93023, AC004876, AC002126, AP000045, AC005089, AL031431, AC005899, AL049766, AC005519, AC004841, AC008018, Z95152, Z97054, AC004491, AP000113, AC004966, AL050307, AC004913, AC005829, AC005696, AL121652, AC006449, AL022476, AP000557, AC009516, AF053356, AL022238, AC002477, AC005902, AC000111, AC005231, AC009247, AC004084, L78833, AF111167, AC006965, U91318, AC004020, AF109907, Z98885, AC005529, AL049697, AP000689, AC007371, AC006511, AC004671, AL109967, AC005064, AF196969, Z98051, AL024498, AC005225, AC006255, AC006050, AL031005, AL049760, AC006121, AC005412, AC005057, AP000704, AC002551, AC005620, AF001549, AC002470, AF207550, AC003029, AC007878, AC004125, AL035086, AC002350, AC002312, AF031078, AC003982, AC004882, AC005086, AC004895, AF030876, AC008372, AC000353, AC002492, AC005837, AP000345, AL009181, AL035417, AC007151, AC006006, AC007308, AP001053, AC004858, and AC002352.
HNNTA24	7540	911178	1 - 1654	15 - 1668	AL037632, AL110760, AA524604, AL044340, AA287618, AL038990, AL138265, AF034176, AA708751, AL135377, AF866487, AW188427, AA311156, AA680243, AI963221, AL042905, AL042906, AA601355, AL135698, AA984258, AL047602, AA742815, AA608741, AA481760, AI745133, AA487068, AL119123, AI732120, AA584482, AW243793, AA223932, AA658844, AL119331, AA608612, AA102235, AA524821, AW151713, AI654588, AA487475, AW069819, AW079809, AW102811, AI310464, AI679294, AW405593, AI951863, AA608588, AI679871, AW328050, AL041706, AI457389, AA211734, U51704, AA133505, AW172908, AL046746, AI952885, AA665449, AA493641, AW080062, AI653525, AI126635, AI160144, AI016704, AA133332, AI694178, AA634991, AA113272, AW008089, AA534064, AI816537, AA224525, AA130647, AA643454, AA643457, AI954192, AI696793, AW277171, AW130036, AA838140, AI340641, AI499134, AA904211, AI583978, AW089861, AA046906, AA808796, AI433104, AA640277, AA157876, AA643452, AI801141, AA845659, AA456937, AW089625, AI913324, AI633490, AA577824, AI132963, AA632281, AA504898, AA513422, AI821881, AI821918, W96277, AW079792, N66012, AA206044, AA297145, AW129686, AI445934, N80210, N76766, AA584862, AF196779, AC004099, AC006241, AC005531, AC005412, AF207550, AC005808, Z99716, AC004033, AL049869, AP000356, AP000556, AC005519, AL049776, AC005901, U95742, AC005071, AC006441, AC004805, U95740, AC005484, AC007216, AL024498, AL022165, AC005399, AC004084, AC007630, AC006079, AC002544, AF053356, Z93244, AC002492, AP000049, AC009247, AC005562, AC007386, AL117258, AL035420, AP000311, AC005829, AC007225, AE000658, AC007011, AC004263, AL133399, Z93023, AC008372,

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HNIHPF67	7541	859817	1 - 461	15 - 475	T97754, D80212, D80439, D59619, D80210, D80240, D80157, D81030, C14389, D80219, D80268, D80166, D80045, AA305409, D80022, D80248, D80133, D59859, D59502, D51423, D51799, D80253, D80188, D80247, D81026, C14331, C14014, D80195, D51060, D80366, D58283, D59927, D80391, D80164, D51759, D59787, D59467, D59275, D80038, D80043, AA514186, D80227, C15076, D80193, D59610, D57483, D59653, D80196, D80269, D59889, D51022, D50979, D80522, D80024, D50995, C75259, AA305578, D80378, D80302, AA514188, D80241, D80251, AW360811, D51103, AW177440, T03269, C14429, AW178893, C06015, D59373, AW377671, AW375405, C05695, T48593, D80064, D45260, AW178906, AW366296, AW360844, AW360817, AW179328, C03092, AW375406, AW378534, H67854, AW179332, AW377672, AW179023, AW178905, AW177731, AW378528, AW178762, AW179019, AW378532, H67866, AW177501, AW177511, D51221, AW179020, AW377676, AA809122,

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HNHPD68	7542	974350	1 - 483	15 - 497	AA678653, M62281, AA573185, AA599209, AA636049, H47716, AI521649, AI126075, AI400888, AA356989, AL137994, AW419403, D82794, H70162, AA745961, AA843874, AL048508, R94977, N79242, T95826, H79669, AL043039, AA180541, H73186, AW090739, AA309370, H83162, H54821, AI439860, AA558270, AI088796, AW190486, AI348417, AL139165, AC004788, AC007092, AC004823, AC007243, AC000124, AC005370, AC012099, AL049743, AC004470, AP000433, AC006371, AP000949, AL022161, AC009891, AP000568, AL035469, AC007364, AC004014, AF064860, AC002453, AC006288, AC005518, AC007372, Z83848, AL049837, U40455, AL110505, Z93928, AL109759, AC008168, AL035258, AC005999, AL049734, AC005235, AC003082, AJ229042, AF015262, AC007262, AL022397, AC004806, AJ229043, AC006054, AL031114, AC007344, U53930, AP001039, AC007091, AL021307, Z93019, Z72001, AC002357, AF044083, AC007628, AL035593, AC002080, AF002997, AC006484, AC008067, AC008498, AL132777, Z83843, AC006548, Z80771, AC006016, AC003958, Z83820, AL034369, AC007317, AL022153, AC004055, AF029308, AL035687, AL031319, AC002463, AL109799, Z70225, AL021068, AC007671, AC004894, AL030996, AC004673, AL121823, AC007535, AC003087, AP000517, AL022401, AC008170, Z82200, AC004981, L78742, AC005243, AB023054, AC011331, AC000117, AP000884, AL031673, Z70227, AC002483, AC005610, AC007397, AC002488, AC004782, AL079334, AC003016,

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HNHOX01	7543	915303	1 - 186	15 - 200	AL035091.
HNHOV24	7544	974344	1 - 528	15 - 542	AA032511.
HNHOQ36	7545	859824	1 - 460	15 - 474	AI792564, AI053778, N73203, AA077619, AI018726, N57709, N73060, AA757621, R83708, AI362442, H01852, T60940, AI078143, H37821, AA525331, AI473549, AI128439, AA774098, AA301899, AA584445, AA297776, AI017733, AW373645, AI246061, AA501617, AA569157, H63066, AA904211, AA321595, AI054090, AL138252, F36200, AA516192, AI249853, AA862029, AI284543, AI273675, AI254770, AA653713, W23432, AI251944, AI251034, AI251203, AI268564, AI251284, AW276933, AI085095, AI250552, T03928, AW102930, AA588353, AI138918, AI471597, AW084004, AA741020, AA832016, AI275982, AI371804, T69022, AA557984, AW247089, AI289050, AI284092, H57324, AW192518, AI003988, AL037777, AA728911, AA715508, AA831801, AI949319, H25626, AW152172, AI963408, AA449979, AA225548, AA633565, W63553, AI679759, AA610351, N55041, AA564256, AL036070, AW243808, N50710, AW080772, F17537, AL079894, R25708, AA525949, AI679045, AA975915, AA664248, AI679294, F25348, AA182629, AI052611, AW248498, AI431303, C14599, AA598608, AA682536, AI432851, AI537931, AI459866, AA135988, F33126, F25640, AI798242, C14880, AA814719, AA468494, AW089054, AA49460, AA226346, AI251241, T08386, AA679173, AI613285, AI223626, AA348859, AA219542, AA362791, AL042869, AA776548, AA115655, AW303098, AI889579, AA653291, F32248, AA857812, AA832152, AA084679, AW168699, AW248724, AA846014, AA132929, AW167909, AI917891, AF043251, AF050154, AC005494, AC002057, AF207550, AP000337, AC005233, AP000215, AL022336, AC001228, L13712, AL133445, Z83844, AP000321, AF024534, AL109963, AC002126, AP000121, AP000167, AP000052, U82671, AL022238, AC004500, AL096710, U80017, AC005899, X51956, AC002994, AC006512, AC004098, Z95118, AC006530, AC007058, S77605, U91324, AP000008, AP000704, AC004967, AC002430, AC007384, AC008064, AP000555, AC005328, AC002369, AC005589, AL021368, AC004462, AC006388, AL109852, L177570, AF196970, AC004817, AL132712, AC004686, AL117258, AC007664, AL021707, AL022724, M57627, U16720, AL109802, AC004034, AC003692, AL109956, AL031428, AL022327, AC004997, AL031005, AL050338, AC005587, AC006318, AC005585, AC010205, AP000501, AC007277, AC007686, L29074, AC006430, AC005736, U72845, AB014540, AF008915, AF135025, AC005190, Z49154, AL050404, AC004186, AC003047, AC006132,

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					AA176629, AA515744, and Z83851.
HNHOP92	7546	790911	1 - 720	15 - 734	
HNHOP88	7547	974327	1 - 523	15 - 537	AA515610, AJ230815, AA330576, AA353402, AA578326, AA169232, AW192471, AA584241, AI379710, AA481147, AA480974, AI832832, AA493464, AI917658, AI433952, AA427747, AA167178, N27362, AW148964, AI049999, AW169183, AA209438, AI453476, AA995373, AI869406, AA594164, T57562, AA848131, AI696455, N76712, AA570037, F37050, AA879022, AA167656, AA916556, AA348889, AI061203, AA573067, T05143, AA084320, AA132929, AA225645, AA218684, AI679082, H65404, AA525879, AW243817, AA632621, AA600127, T54552, F36482, N26159, AI216981, AI801563, AA171400, AA977385, AW338376, AA861184, AI732327, AI890297, AI860648, AI925617, AI879968, AA436940, AI890091, AA280198, AW074332, AA513565, R80053, N86047, T77378, AI038577, AA564253, AI952574, AI204310, AA362439, AI719985, AA528507, AI271693, AA713720, AA425283, AA584360, AI434103, AA829565, AI907506, AI610082, T26553, AI126238, AA381948, AI572680, AA661583, AA774398, L48866, AI354369, AI016434, AW021674, AW006527, AA687565, AA553389, AA749062, AA640104, AA338436, N49298, AA099785, AW243808, AI086229, AA088900, AI952885, AW273177, AA303002, AW080062, AW273235, AA099801, AA629107, AL042731, AA523719, AI223242, AA524604, AL079682, AW162314, AW162332, F05050, AA347203, N76093, H68017, AI560063, C15279, AI672515, AI967976, AI754926, AA362670, AA854222, R16061, AA115769, AW406180, AI800189, AI955861, AA527391, AA313066, AA634882, AI818921, T03774, AC004477, Z99716, AC005412, AF165142, AC006544, AC009247,

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HNHO163	7549	838790	1 - 849	15 - 863	AA648110, AL046409, AL042753, AI334443, AI284640, AW303196, AI963720, AL138455, AW301350, AW274349, AW419262, AW410400, AI679782, AI431303, AW327868, AL037683, AW193265, AW338086, AA649642, AI281881, AI053672, AI270117, AI350211, AI613280, F36273, AI305766, AW162049, AI929531, AI110770, AI061334, AI358571, AI471481, AA652764, AA587604, AI962050, AI133164, AI345654, AI298710, AI473943, AW438643, AI339850, AI341664, AI375710, AA177061, AI289067, AI619997, AW276827, AL038785, AA526787, AL044940, AL042853, AI688846, AW193432, AA713815, AI064864, AA490183, AI457397, AW270270, AL042420, AW276435, AL119984, AI732865, AI567674, AA507547, AI341548, AW166815, AI499134, AL046205, AW021583, AI754658, AA178953, AA192740, AW073470, AW104748, AI537955, AI049722, AI917271, AI085719, AI345518, AI281697, AL120687, AI434695, AI821271, AI918421, AI745325, AI379719, AI251002, AW408717, W79504, AI799642, AI340453, AA631507, AW406162, AI744995, AW261871, AI148277, AI890923, AA947360, AA492166, AW023672, AA523815, AI564185, AI017024, AW339568,

AA594145, AI282832, AW167372, AW162489, AI951863, AL038474, AW304584, AI732186, AI287451, AW238278, AI624142, AA714453, AI287651, AI732764, AI537506, AW148792, AA523843, AW276817, AI499181, AA515829, AW407578, AA577906, AI708009, AI623898, C05986, AA525190, AL039958, AA340747, AI446464, AA68131, AI286356, AI801591, AI291124, AI469003, AW079135, AW020340, AA598586, AA719805, AA744031, AI921476, AI628288, AA084070, AI469172, AA679124, AI291268, AI761471, AI362368, AA350859, AI499938, AI590958, AW157651, AA525824, AI928898, AI064952, AA587256, AI890918, AI564454, AW072587, AI969436, C05755, AI370878, AA584082, AI674873, AL119295, AA613227, AI653886, AI355224, AW302013, AI865905, AA837084, AA582911, AI279165, F34498, AW022379, AI336660, AI590689, AA908422, AW168342, AW238583, AL135405, AI919265, AI559705, AA977743, AA599920, AL041706, AL121235, AA584167, AI866908, N25296, AA483771, AW265170, AW103758, AA426277, M86143, AI798473, AI633025, AA491831, T07287, C13988, AI633390, AI049634, AI439360, AI539563, AA569387, AI048142, AF150152, AI246796, AI287528, AA126035, AW265009, AA629992, AA621858, AA126051, D83989, AC010170, U18393, AC005154, AC004638, AC005815, AC004381, AC007514, AC007510, D87675, AP000090, X54175, AC005250, AL133399, AC004650, AC005527, AL080243, AC006960, AF015151, AC007298, AF015156, AL121603, U18399, AF015147, A39972, X55926, AF039907, AC003085, AC004940, AC004010, AL023882, AC002041, U66059, AC005406, AC005740, U18394, AL022400, AC005821, AF015167, AL023581, AF077058, AC000353, AC002429, AF015158, AF015149, AC005362, U18391, AC006292, AC002430, AC006512, AL022163, AC005291, U02531, AC007384, X55923, AC002470, AC002540, X54181, AC008115, AC006213, AC005839, I51997, U57009, AL035688, X75335, AL080248, AL109865, AL121694, U18395, U67233, AB020859, AC004069, AL024507, X55925, AC008372, AC005881, AF196779, AC007216, AL049742, U72787, AC004879, AF015153, AC004953, AC004626, AC004931, AC002091, AC006273, AL117258, U47924, AF029308, AL031733, U12580, X54180, AC006121, AC005295, AC011504, AC006548, U57005, Z86061, AP001051, AC007043, AL096776, AF001549, AC004765, AL022721, AC004987, AL049712, AC007666, AC002402, AC003007, AP000965, AL109618, AP001053, AC005913, AC007151, AL031311, AL035458, AL034420, AF227510, AJ003147, AC006040, AC004859, U12584, AL035694, AC005692, AD000812, X53550, AL022328, AF123462, AL049829, AL034384, AC005529, Z82216, AC000025, Z94277, AL021940, AC005324, AL121934, AC003080, AC004756, AL008728, AL133448, AC006128, AC004832, Z69666, AC007488, AL117330, AC007243, AC002549, AC006371, AC004028, AC007099, AC007376, AL035665, AC004019, AC005184, AC007845, AC004008, AC002126, AL049709, AC000052, AC002133, U69730, AL031281, AC007877, AF015157, U67221, AL035425, U18392, AC004228, AL023755, U91323, AC005242, AC005632, AL110502, AC006989, AC005563, Z98051, AF015150, AC002564, AC004592, AC009069, AL008720, AL049562, AC016025, U18398, AC006210, AL022147, AC005246, AL031286,				
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HNHO107	7550	952285	1 - 551	15 - 565	AA209360, and Z85994.
HNHOF94	7551	948720	1 - 772	15 - 786	AW407632, AI687343, AA678950, AI284640, AW193265, AL046409, AI613280, AI270117, AI305766, AI350211, AI963720, AI431303, AI610159, AI754653, AA828704, AW276827, AI814735, AI334443, F29989, AW303196, AI251034, AI250552, AI284543, AA491814, AW103758, AI375710, AI345418, AW301554, AI245693, AW301350, AI251284, AW274349, AA502860, AI345654, AW327868, AI251203, AA469451, AI688846, AI890348, AI223626, AI619997, AW193432, AI144101, AW302013, AI499938, AW438643, AW303098, AI341664, AA806796, AI061334, AI254770, AI826761, AI358343, AW303176, AA847499, AI289067, AW088202, AW406162, AI471481, AW268973, RI7793, AI613389, AL041690, AI754955, T74524, AI633390, AA503283, AI601229, AI570261, AW419262, AI049634, AA578861, AA743968, AL037683, AW088846, AW340905, AI246409, AW408767, AI537800, AA630925, AI053672, AW276435, AA682912, AI085719, AL044940, AI355007, AA811741, AI298710, AA719524, AI830390, AL119691, AA502963, AI708009, AA745326, AA570740, AA483606, AA623002, AA713891, AW023111, AI889781, AI281697, AA577906, AI744995, AA581903, AA568204, AA635433, AA720702, AA503284, AA503258, AI344844, AI199816, AI345681, AI754658, AI345675, AI434706, AA225246, AI251241, AI589230, AA584752, AW339533, AA490183, AA904211, AI955323, AI860013, AI334464, AW407578, AI344812, AL048925, AA084609, AA812139, AW008317, AA492166, AL042420, AA594145, AA758934, AW276817, AI434695, AC016026, U57008, AL031123, AL021393, AC005200, M37551, AC005520, U18394, D83989, AC007999, AF015147, U57009, U18395, AC005488, AC006241, AL023656, AP000117, AC002455, U57005, AC004152, AC004814, AL031121, U18391, AP001172, AC002470, AC008008, AF015157, AL022322, AL031680, AC004650, AC005913, AC006213, AC005291, X55925, AC007676, AL049795, AL034549, U18392, U57006, AF077058, AC006251, U18393, AL049766, AC000003, AF015156, AC002430, AB023049, AC005280, X54176, AC005288, AC005535, AC004675, AC006430, AL008629, AC005231, AC005914, D84394, U18387, AI035587, AC007384, AC004263, U18398, AC004929, AF088219, AC000396, AL049557, AP000193, AC005046, AL121653, AL008716, U57007, AC003983, AC016025, AC005900, AC003074, AC006019, AL031729, AL121603, X55926, X54181, AC007541, X54180, AP001054, I51997, AC004234, X75335, U18399, X55931, X53550, AL109801, AL033543, Z98742, D87675,

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HNHNT20	7552	773683	1 - 265	15 - 279	T63118, AW137918, AW003112, AL968073, AL134462, AA514255, AC003007, and AC005632.
HNHNQ08	7553	958377	1 - 422	15 - 436	H70153, and AC006071.
HNHNP81	7554	928378	1 - 604	15 - 618	D51060, C14014, D58283, AA305409, D80253, D80024, D80166, D59619, D80210, D80240, D80366, AA514186, C14389, D80043, D81030, D80133, D80247, D59859, D80212, D51799, D80164, D80219, D51423, D80022, D80391, D59787, D80195, D80188, D80248, C14331, D59502, D59467, D57483, D59275, D59610, D80227, D81026, D50995, D80196, D80439, D80251, D80269, D59889, D51022, D50979, D80268, D80522, C15076, D59927, AA305578, D80038, D80193, D80045, D80241, AA514188, AW360811, D80378, AW177440, D80302, C05695, C14429, AW178893, AW377671, AW375405, D80157, T03269, C75259, AW178906, AW179328, AW366296, AW360844, AW360817, D59373, AW375406, D51103, AW378534, AW179332, AW377672, AW179023, AW178905, D51759, AW360841, AW378532, D58253, AW177731, AW177501, AW177511, D80132, D80134, AW352171, AW377676, AW352170, AW178907, AW378528, AW178762, AW179019, AW179024, D51250, AW176467, AW178983, AW177505, D81111, D59653, AW179020, AW178775, AW367967, AW369651, AW178909, T48593, AW177456, AW179329, AW178980, AW178914, AW177733, AW178908, AW178754, AW179018, C06015, AW352158, AW352117, D80949, AW178774, D59695, D52291, D45260, AW352120, D59627, D51079, AW179004, AW179012, AW378525, AW352163, F13647,

HNHNP66	7555	918684	1 - 324	15 - 338	
HNHNO01	7556	915358	1 - 380	15 - 394	
HNHNM39	7557	950971	1 - 385	15 - 399	
HNHNK02	7558	918715	1 - 499	15 - 513	
HNHNJ24	7559	859836	1 - 389	15 - 403	
HNHNI09	7560	800482	1 - 517	15 - 531	
					AW360834, T11417, D80064, Z21582, D80168, C14298, AW378543, AW352174, D80258, AW177728, H67854, C14227, AW179009, AI525923, AW367950, AW178911, AW177722, D59503, AI910186, AW378540, C03092, H67866, AA809122, D51221, AW178781, D58101, AI905856, D58246, AW177508, C14407, D80228, AI525917, C14077, AW178986, AW177497, T03116, AI535686, AI535850, D59317, D51213, D80014, D59474, AW177734, AI525920, D45273, AW177723, C14973, C14344, AW378533, AA514184, D59551, C14957, AI525215, D60010, AI525235, D60214, AI525227, C14046, AI557774, AI557751, AI525912, T03048, AI525925, D51097, AI525242, AA285331, AW378542, AI525222, AW378539, Z30160, C16955, C05763, Z33452, T02974, D51053, AW360855, H67858, AI525237, C04682, D50981, T02868, C13958, AI525928, D80314, AI525238, A62298, AB028859, AR018138, AJ132110, A62300, AR008278, A84916, AF058696, A82595, AR060385, AB002449, D89785, X67155, Y17188, A94995, D26022, Y12724, A25909, A67220, A78862, D34614, AR008443, I50126, I50132, I50128, I50133, D88547, AR066488, AR016514, AR060138, A45456, A26615, AR052274, X82626, Y09669, A43192, A43190, AR038669, AR066487, A30438, I14842, AR025207, AR054175, D50010, Y17187, AR066490, AR008277, AR008281, A63261, I18367, AR008408, AR062872, A70867, AR016691, AR016690, U46128, D13509, A64136, A68321, AR060133, AB012117, I79511, X68127, U79457, AF123263, AR032065, Z82022, A63887, and AR008382.
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					AI186854, and AC006453.
					AI124612.
					AA814193, AI523747, AI699155, AA861334, Z38674, and AW129261.
					Z45490, AA381008, R99526, D59502, D80195, D80164, D80166, C15076, D80022, C14389, D81026, D80193, D59619, D80210, D80240, D80045, D80188, D59467, D59275, D80227, D81030, D80212, D80219, D58283, D59859, D80391, C14331, D59787, D51423, D51799, D80253, D80043, AA305578, D80269, D80038, D80196, D50979, D59927, AA514188, AA305409, D59610, D57483, D80378, D80366, D51022, D50995, D59889, D80024, D80439, D80133, AW360811, D80248, D80251, D80522, D51060, AW177440, D80241, AA514186, C14014, AW178893, D80247, D80302, AW375405, T03269, D80268, AW366296, AW177456, AW377671, AW179328, AW360817, AW377676, D51103, AW375406, AW378534, AW179332, AW377672, AW179023, AW178905, D80157, AW178762, D80132, AW378532, AW352171, C06015, AW352170, AW177731, AW178907, AW378528, AW179019, AW179024, D80168, D51759, D51250, AW178906, AW179020, AW178980, AW177733, AW178908, AW179018, D59695, AW177728, C03092, AW369651, T48593, D80134, D80949, D52291, D58253, AW178914, AW178774, AW378543, AW378525, D80258, D59503, D45260, AI525923, AA809122, AW178781, AW178911, AW378540, AW352163, H67854, H67866, AW360834, D59627, T03116, AI905856, AW367950, T11417, C14407, F13647, D59317, C14077, D80064,

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HNHNH51	7561	974343	1 - 324	15 - 338	AC003971.
HNHNH85	7562	870121	1 - 943	15 - 957	AA071005, AA071202, AW073232, AI239470, AI699750, AI961252, and AI480252.
HNHNH81	7563	974334	1 - 404	15 - 418	
HNHNH07	7564	952273	1 - 411	15 - 425	H73026.
HNHNH92	7565	790945	1 - 395	15 - 409	AW452355, AA458631, and AW340986.
HNHNH85	7566	783887	1 - 446	15 - 460	H91962, AA203711, AW237711, AI566217, and AW378142.
HNHNH02	7567	918709	1 - 246	15 - 260	T70858.
HNHNH249	7568	859842	1 - 694	15 - 708	AA136727, AA683031, AA229218, AI471543, R45882, AA229121, AI367674, AI924251, AL041895, AA838140, AI053790, AL120269, AI051526, AI799545, H58149, T59285, AW406447, AI671077, AW131249, AW102955, AA469441, AW247819, AI907046, R08190, AL045053, Z33541, AA284179, AA563818, AA225634, AA076632, AA075754, AA344161, AA102235, AI740499, AI281401, AW086465, AA693450, AI859744, Z78385, AI284640, AW238733, H80899, AA196573, AA317170, AI205126, AA558697, H64560, AI749284, AI435507, AA340003, AW248523, AA362917, AI499094, AA586655, AW069807, AA165462, AI286356, AA601355, AW074398, AA663306, H86264, AL047602, AA059154, AI471481, H86301, AW103415, AW406162, F29989, AA483034, AW276435, AA441788, AI246541, AA299115, AA229188, W60516, AA669251, AA904218, AA916039, F36273, AI049722, F32705, AA350859, AW080134, F32395, AA654627, AA714595, AA098922, AA470985, AI251002, AA229785, H64777, AI435544, AA649642, AA652057, AL038785, AI282832, AW338869, AA605274, AI890923, AA587256, AW236342, AI350211, AA252763, AA021552, AI287964, AW419262, AI962050, AI053672, AA515435, AA831388, AA515051, AI289067, AA177061, AA557325, AI929531, AW264973, AA364456, AI688846, AI339850, AA176924, AL118947, AW193432, AW166815, AL120483, AL042753, AI371070, AW419118, AI334443, AW193265, AW162049, AI312149, AL043721, AW265197, AI341664, AI358343, AI110770, AA112299,

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HNHMY52	7569	975207	1 - 610	15 - 624
HNHMS26	7570	975206	1 - 437	15 - 451
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HNHMQ86	7571	784986	1 - 413	15 - 427	AI208970, AI539280, AA136699, AA609668, AA812915, and AL020997.
HNHMQ28	7572	859847	1 - 385	15 - 399	R07682.
HNHMF02	7573	918649	1 - 295	15 - 309	AI214402.
HNHLY58	7574	859849	1 - 557	15 - 571	AA601385, AA251682, AJ003636, AA679811, and AP000523.
HNHLW34	7575	859850	1 - 595	15 - 609	Z40220.
HNHLW10	7576	963542	1 - 413	15 - 427	AA680257.
HNHLR36	7577	859851	1 - 573	15 - 587	AA665071, AA826177, W85860, AL119541, W89152, AI538106, W67486, W67485, AI149238, AA976584, AI472070, AW071302, AA297443, R10107, AA525156, AC003108, AC006121, AC022517, AC002470, AL080243, AL031289, AL050308, AC003075, AC004196, AC004197, AC005523, Z83822, AC003687, AB003151, AP000688, U82695, AC009399, AC002530, AC003071, AC003663, Z97054, AF111168, AC005102, AC006323, AC002045, AB020863,

HNHLQ07	7578	952279	1 - 641	15 - 655	AI022394, AC005871, AC008372, AC006111, and AC007052.
HNHLG36	7579	855071	1 - 544	15 - 558	AA700856, W92080, W92074, and U47924. N63437, AI042513, AA988159, N95744, AI241692, AW025809, AI341411, AI479298, AI827201, AA718988, AW298184, AA514475, AI078116, AA456139, AA954932, AW305231, AI734889, AI224855, AI093059, AI912915, AI690289, AI807586, AW082516, AI375429, AI857358, AA846245, AI125609, AI830516, N25902, AI469756, AI631154, AI394192, AA258738, AI951377, AI299480, AA150203, AI610824, AI434048, AA449685, H09775, AI799883, AI453490, AW337996, AI289435, AW440580, AI972947, AI289432, AI620722, AI863491, AA594584, AW167132, AI758979, AW264027, AI458169, AI672560, W93405, AI623819, AI814412, AA167742, AW014387, C03567, AA648408, T54772, AA209462, AA150039, AI890890, AA744971, AI952039, AI963445, AI869379, H24845, R62398, F21778, AA159073, AA081121, AA709203, AI383705, AA693450, and AB029022.
HNHLD70	7580	756668	1 - 402	15 - 416	AA199808.
HNHLC01	7581	915363	1 - 555	15 - 569	AA577871, AI078475, AP000025, AP000026, and AL050302.
HNHLB03	7582	923091	1 - 596	15 - 610	R87227, H51542, R84527, H39138, AW205403, AI970379, AI651385, AI038507, AA977060, AC006312, AC005630, and AC006328.
HNHKT86	7583	785104	1 - 366	15 - 380	R43189, AW297929, T26440, T26439, and T17457.
HNHKQ50	7584	723868	1 - 435	15 - 449	R94028, AA848093, R93984, and AA905345.
HNHKP03	7585	923276	1 - 706	15 - 720	AI023587, AA889354, AA846791, and AL022333.
HNHKI61	7586	859925	1 - 651	15 - 665	AA262089, N40358, Z99127, Z94721, AC005777, and AL031737.
HNHIS54	7587	730706	1 - 550	15 - 564	R55602, R11681, and AC004913.
HNHIR83	7588	781195	1 - 508	15 - 522	R15158.
HNHIC85	7589	784345	1 - 571	15 - 585	W95091, and H49177.
HNHHL58	7590	736064	1 - 488	15 - 502	AA088554.
HNHHG53	7591	830068	1 - 328	15 - 342	AA189067.
HNHHF86	7592	784698	1 - 371	15 - 385	
HNHHF61	7593	741836	1 - 307	15 - 321	
HNHHF52	7594	726576	1 - 343	15 - 357	AI189682, AA491767, W02419, AW407007, AW105463, AA747977, T51556, AI491765, AA199582, AA719433, AI762528, AI573009, AL041375, AI246996, AI445224, AW275432, AA714110, AI870453, AA558366, F00937, AA722336, H38769, AW304536, AI278972, C18779, AA225754, AA225392, T71936, AW088656, AI358557, AA219349, AI439525, AA458534, AI206841, AA745628, AA502532, AI445297, T90477, AA947369, AW028950, AW023111, H29914, T50676, H67064, F35684, AI608751, AI798493, AW105729, AL045476, AA584756, F30310, AL079734, AI445934, AA604843, AA613761, AI356440, AI623805, AA156323, R99034, AW272294, AI242614, AA515939, AA228979, H81346, AA229823, AI355103, AA708760, AI879951, AA302982, AA225406, AA018231, AI311779, AI635028, F23338, AA018923,

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HNHHF39	7595	705407	1 - 333	15 - 347	AA610822, AC006044, AL121852, and AC000004.
HNHHF38	7596	709278	1 - 308	15 - 322	AA084070, F28776, AI610159, AI754955, AA654771, AA482711, R77905, AA501600, AW406162, AI921649, AA199692, N43757, AI355206, AI281881, AA127353, AA491814, AA559290, AI471481, AI200051, AI859742, AA826303, AI194761, AA886584, AI283911, F29989, AI061334, AW406755, AI537030, AW169537, AA604156, AI801600, F36273, AI802526,

AW193265, AW088058, AA364456, AI284640, AI160117, AA515128, AL046409, AA569187, C75026, AA394271, AW243960, AA284179, AI469624, AI350211, AL041412, AW072587, F35673, AI917271, AI291268, M86058, AI291124, AA177061, AW276827, AI471543, AI298710, AI431303, AI688846, AI279165, AW193432, AI148277, AA649642, AW162489, AW088202, AW270270, AI871722, AI653905, AI446638, AA074130, AI434695, H57810, AI358229, AI206785, AA642060, AA161181, AA515051, AA483731, AA587604, AA669416, AI344844, AA664899, AA744088, AA610491, AA744074, AA634238, AW148792, AI198376, AI119691, AW406447, AW162049, AA745355, F29702, AI341664, AI538433, AA828704, AI929531, AA703820, AI367975, AW419262, AI613280, AA126051, AA126035, AA338522, AW247819, AI754658, AI805016, AW167372, AA552856, AA350859, AW029038, AA349638, AI287651, AA581903, AW080134, AA837740, AW236342, T07451, AI281903, F34498, AA654968, AI567674, AI619997, AI192631, AW021583, T17016, AW079135, H88666, AI732120, AA528516, AA365302, N41375, AI801482, AI365988, F26152, AA614069, AA652057, AA348311, R91994, F09736, R98967, AA448858, AI653636, W00582, N52544, H86301, AI962050, AI303008, AI358343, AI133636, AI254615, AI672135, AA714453, AA613345, W79504, AI358571, AL044940, AI890923, AI252554, H56013, AW166815, AA515224, AI334443, N25296, AA720702, AA514737, AA630925, AW339568, AI144330, AI345654, AA601892, AL041368, AI624698, AI539563, AI339850, AW301350, AW303196, AI053672, AI963720, AA346454, AI625244, AW274349, W07122, AI889923, AW151884, AI904894, AI349850, AA664535, AI251002, AA535661, AI160582, F19012, F28308, AI355224, H86264, AA503258, AW407633, AI120687, AI357288, AA347927, AI110770, AA843450, AI273185, AA584145, AA134367, AI364020, AA745582, AW406659, AI312149, AW265385, AA469451, AW303876, W73048, AI653886, AA595782, F25135, AA490030, AA653975, AA713815, AI017024, M62272, AP001052, AC005775, AL031668, AL132800, AL022237, AC007243, AP000952, AC007528, AC007688, AF023268, AC005412, AC006538, U18396, AL022576, X55928, AL034402, AC006011, AC007392, AC005900, AF015150, AL049759, AP001046, AL133241, AC004593, AC009294, AL008728, AF077058, AC004671, AL022476, AC006116, AC003035, AP000885, AD000684, AC004987, AL133448, AP001068, AP001067, AC008033, U02054, AC005516, AC005295, AC004963, AC002472, AC006449, D85620, AC006539, AC004606, AC005081, AC006511, Z86090, AC005158, AJ011930, AP000555, Z98051, AC005069, AC005722, AP000351, AC006271, U50871, AC006556, AC007285, AL121694, Z83821, AF196969, AL020991, AL031848, AC005065, Z98950, AL096791, AC007878, AL033392, AC005154, AC006001, AC007919, AC006455, M37551, AL049760, AC005083, AC004167, AL096774, AL031734, AC006427, AC004799, AP000304, D83989, AC003688, AL031319, AP000128, AP000206, AC002430, I51997, AL049776, D84394, X75335, AC006285, AP000359, AC004773, AC005740, AC005383, AC004638, AC005229, AC007934, AC007384, AL031777, AP000245, AC006596, Z68192, AC004592, AL049696, AL008709, AC005002,

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HNHHC61	7597	708714	1 - 350	15 - 364	
HNHHC61	7598	694365	1 - 331	15 - 345	H65022, and AA186889.
HNHHC61	7599	657245	1 - 124	15 - 138	AL035454.
HNHHC61	7600	924221	1 - 235	15 - 249	AA486925, AA188664, AA761430, AC005912, AC007563, AL109623, AL049843, AL034419, AL078477, AC006948, AD000864, AC000353, AC005562, Z81364, AC005632, AC004990, Z84469, AL022476, U91323, AL031005, AL031053, AC002288, AC003037, AC004601, AL049749, AC004514, AC005684, Z95116, and AC004832.
HNHHC61	7601	741839	1 - 359	15 - 373	AA459664, AA459676, and W38373.
HNHHC61	7602	948731	1 - 403	15 - 417	AA774118, AL000830, AL023883, AC002301, and AC006504.
HNHHC61	7603	743400	1 - 390	15 - 404	AL284640, AL046205, AW327868, AL046409, AL048925, AA984708, AL610159, AW276827, AA828704, AL467919, AW021583, AL431303, F36273, AW193265, AW276817, AL613280, AA523843, AL281881, AL357551, AA630925, AA521399, AL345654, AA521323, AL350211, AL270117, AL305766, AA758934, AW338500, AL801591, AL037683, AL379719, AL471572, AW419262, AL344443, AA621858, AL091495, AA669840, AL219406, AA528516, AW148792, AL246409, AW407632, AL375710, AL041690, AL471481, AW338086, AA713891, AA133333, AL133164, AA679672, AL619997, AL688846, AW438643, AL138455, AA490183, AL969436, AA654771, AW339568, AL110770, AW193432, AW270270, AA514819, AA493621, AL341664, AW238278, AA559290, AL499503, AL761471, AA587256, AL048626, AA938225, AA133406, AA491284, AL937850, AA977743, AL688928, AA569471, AL623898, AW157005, C75026,

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HNHGU56	7604	85953	1 - 760	15 - 774	AA614095.
HNHGT92	7605	496480	1 - 387	15 - 401	
HNHGT84	7606	781977	1 - 393	15 - 407	AL037067, AI224583, AA595661, AA603400, AI049845, AI439525, AA489390, R42954, AI690379, AW250029, AW272294, AA810376, AA513851, AA225406, H24331, Z98946, AC000075, AP000502, AC007371, AC005664, AP000553, AI117258, Z97054, AI109623, AI135744, AC004686, AC009516, AF053356, AC006547, AF111168, AC004448, AC004929, AC005207, Z95113, AP000211, AP000133, AL031680, AF205588, AL031281, AC005158, AC015853, AC007676, AC000084, AC002115, Z95114, AC009247, AC006557, AP000039, AP000107, AC004134, AL034417, AL020995, AC004771, AL022238, AC004526, AL117339, AC006449, AC007055, AC004106, AC005696, AC007065, AB026899, AC005874, AF134471, AC005519, AC005663, AL034429, AC007066, AC005666, AC004019, AL022326, AC004967, U91321, AL117337, Z86061, AL008582, AC005516, AC005899, AL096794, AP000509, AL035400, AC005229, U62317, AP000557, AL133245, AP000500, AC016027, AL031985, AL132712, AC005261, AC004525, Z93023, AC004985, Z96074, AC005730, AC002126, D84394, AL031311, AC000120, AC005081, AC002472, AC003101, AC004821, AC004812, AC002401, AL031432, AP001054, AL033527, AC004673, U82668, AL049776, AF029308, AC007263, AP000511, AL034421, AC004921, AC005011, AC004231, AP000210, AP000132, Z93241, AP000345, AC002563, AC008038, AL031678, U91318, AC003006, AC016830, AC004477, Z98051, AL049869, AC005529, AC007151, AC005288, AP000359, AL050321, AL139054, AP000505, AC005746, AC002544, AC005189, AP000248, AL109963, Z85986, X87344, AC004079, AC006946, AL022336, AC002554, AC006468, AC005871, AC002470, AC004841, AL034423, D87675, AC004587, AC003043, AC007207, AC005911, AF109907, AC005412, AF165926, AC004236, AC005355, and AC007630.
HNHGT80	7607	775409	1 - 385	15 - 399	
HNHGT15	7608	660304	1 - 629	15 - 643	AA179041, and AA176902.
HNHGT09	7609	625615	1 - 337	15 - 351	AA342238, AI283938, F29968, AA610255, AA523695, AI869797, AA488551, AA584765, AI358712, AI932871, AA598605, AI962030, AA489483, AI280535, AA299721, AA903369, AI049538, AA578621, AA586433, AA568204, AA570740, AA483606, AA570441, AA772151, AA878492, T47138, AW008184, AA361513, AW302017, AA577824, AA384890, AW078909, AA280509, F30310, AI653776, AI493583, AI925665, AA525753, AA581471, AA507814, AA502532, AW082104, AA772016, AL078477, I34294, AC004386, Z84466, Y10196, U95743, AC004999, AL031643, AC002287, AC003109, AL035460, AL117338, AL022719, AP000466, AC008115, M87889, AL049643, AC007283, AC006965, AC002420, AL136295, AC006518, AC006509, AC005972, M29929, AL121653, AC008033, AL031622, AC018769, AC003684, AC004973, AC004025, U80017, AC006581, AL022316, AL023553, AL132800, U02047, AC007537, AC004081, AC004816, AC005399, AB023050, AC005879, AL034417, AL031668, AC000353, AC005304, AL117339, AC005376, AP000248, AC005227, AL110114, AC006016,

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HNHGS24	7610	677228	1 - 791	15 - 805	R12665, AL762545, W88500, AL434243, AL689719, AW138454, W88987, R16402, D45650, and W89080.
HNHGO45	7611	582523	1 - 865	15 - 879	R97614, R91776, D81661, and AL034062.
HNHGN27	7612	859972	1 - 417	15 - 431	AA393618, and AA398697.
HNHGI60	7613	740396	1 - 476	15 - 490	AA017482, AA019002, AA019302, and R84777.
HNHGI03	7614	923829	1 - 439	15 - 453	AL079734, AA572813, H68343, AA579152, F16848, AA225890, AA838091, AI693979, AI446452, H38769, AA582746, F30650, AI734852, AI053784, AI459733, AL044701, AI280601, AI345497, T90477, AA229159, AA526643, AI078409, AI285705, AL041375, H47835, AA579130, AW242279, AA303049, AI282629, AA847585, AA342238, T17332, AI114557, AA873303, AA847047, AA558404, AA158549, AA715955, AA720582, AI762528, AA614010, AA452887, AA215470, AI587467, AI792464, T17135, AW162227, AI858148, AI609972, H53284, H54252, AA598736, AW338268, AA720774, AW272294, AA225406, AI880889, T07974, AA581247, AI870453, AI865776, AP000152, AC004983, AC005067, AC005539, AC007731, AC005500, AC006211, AC006130, AP000212, AP000134, AC006511, AC010205, AF053356, AL031577, AC004966, AL049569, AC004985, AC005409, AC004893, Z95114, AC007216, AL034420, U95740, AC004813, AC004033, AF111167, AC005049, AD001527, AC006449, AC002492,

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HNHGH83	7615	781208	1 - 391	15 - 405	AA199736, AJ003359, and AP001062.
HNHGH22	7616	859983	1 - 432	15 - 446	H47804, and AC004968.
HNHGG39	7617	561093	1 - 315	15 - 329	T60696, AW246223, and AF113544.
HNHGF28	7618	686735	1 - 722	15 - 736	N35183.
HNHGE91	7619	790212	1 - 433	15 - 447	
HNHGE81	7620	777955	1 - 375	15 - 389	AW021741.
HNHGE79	7621	775214	1 - 303	15 - 317	R67701, AL431513, AL077941, AL270476, AA375133, AW302017, AC005081, AC004526, AL139054, AL109827, Y18000, AC003690, Z49866, AC002400, AC004882, AC000353, AP000240, AC006079, AL110215, AC002045, AC007292, M17262, AC004771, AL035587, Z81308, AC005529, AL008725, AL021154, AC005049, AC005578, AP000702, AC005015, AP000703, AC005377, AL049694, AL049759, AC007277, AL135960, AL131016, AL022165,

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HNHGE68	7622	753052	1 - 531	15 - 545	
HNHGE44	7623	683294	1 - 516	15 - 530	AA458759, AA457494, and AA679166.
HNHGE31	7624	698046	1 - 367	15 - 381	
HNHGE24	7625	677234	1 - 420	15 - 434	
HNHGE12	7626	970722	1 - 420	15 - 434	
HNHGD08	7627	959494	1 - 474	15 - 488	T54356.
HNHGC92	7628	792740	1 - 407	15 - 421	
HNHGC91	7629	790199	1 - 212	15 - 226	N64605, AC004902, and AF086089.
HNHGC45	7630	720747	1 - 403	15 - 417	D81926, H55330, AP000556, AP000557, and AC007308.
HNHGC32	7631	699286	1 - 413	15 - 427	Z32887, Z33559, T18597, AI526078, AI557864, D59751, D50992, AI535639, AI535660, AI536138, AI557262, AI541356, AI541205, AI525550, AI525556, AI557082, AI557533, AI540903, AI541365, AA058620, AI557809, C14228, H65400, AI525316, AI557084, AI557317, AI525302, AI557312, AI557731, AI541321, AI525852, AI536150, AI541353, AI525661, AI541075, AI557258, AI557602, AI525757, AI557474, AI557238, AI536070, AI557155, R29657, AI541450, AI546829, AI541034, AI557241, AI547177, AI540974, AI557154, AI535828, AI535813, AI557041, AI541346, AI541154, AI557408, AI541027, AI557039, AI535994, AI557810, AI541048, D30843, AI557543, AI541362, A62300, AR050070, A62298, A82595, A82593, U94592, Z30183, AF006072, U45328, and AR025466.
HNHGC21	7632	670949	1 - 411	15 - 425	T16056, AA339752, AA346514, F09736, AA341336, AA594746, AA641400, T07420, AA508026, AA361273, W30861, R01434, AA492140, AI265800, AA630773, AW129950, AI547110, C15093, AA669616, N27615, AI192839, AA551201, AA649722, F02342, AA316183, AA347170, AA078691, AA704643, AA325597, AA053551, AA320941, AA348504, H86097, AA886992, AA078537, T63030, AA363368, D19768, AA332204, H80306, N58674, AA357552, AA325787,

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HNHGC20	7633	859991	1 - 413	15 - 427	
HNHGC19	7634	668692	1 - 393	15 - 407	
HNHGC08	7635	962224	1 - 258	15 - 272	AL050403.
HNHGC07	7636	953414	1 - 424	15 - 438	
HNHGB12	7637	970726	1 - 663	15 - 677	
HNHGA53	7638	973803	1 - 521	15 - 535	AI493432, AI765576, AI083682, AI151327, AI138460, AI219026, and AA846762.
HNHGY68	7639	752305	1 - 519	15 - 533	AL044060.
HNHFX08	7640	959475	1 - 494	15 - 508	AA223974.
HNHFX10	7641	961275	1 - 309	15 - 323	AA601442.
HNHFX08	7642	959484	1 - 403	15 - 417	
HNHFX07	7643	953403	1 - 437	15 - 451	AA224213.
HNHFX49	7644	975415	1 - 754	15 - 768	AI239477, and AW303399.
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HNHFV30	7645	566339	1 - 331	15 - 345	
HNHFU64	7646	937179	1 - 527	15 - 541	
HNHFU56	7647	733513	1 - 577	15 - 591	H49829, and W26793.
HNHFU12	7648	970882	1 - 429	15 - 443	AA122097, and AC004538.
HNHFR69	7649	757646	1 - 435	15 - 449	AA121914.
HNHFP94	7650	888666	1 - 295	15 - 309	
HNHFP89	7651	786967	1 - 390	15 - 404	AA002022, AW016693, A1400310, A1400321, A1242437, A1383077, and AC002112.

HNHFP03	7652	924606	1 - 520	15 - 534	AA278805.
HNHFM74	7653	506283	1 - 313	15 - 327	
HNHFM54	7654	486847	1 - 551	15 - 565	
HNHFL96	7655	576414	1 - 483	15 - 497	U91323.
HNHFL28	7656	973273	1 - 604	15 - 618	
HNHFL24	7657	903741	1 - 467	15 - 481	<p>D80212, D59619, D80210, D80240, D81030, D80166, D80219, D51423, D58283, D51799, D80253, D80195, D59859, D80193, D80188, D80391, D80227, D80022, D59927, D59889, D80196, D80045, D80269, D80043, D80038, D80366, C14429, D59275, D57483, D59502, D80134, D80024, D50979, D59610, C75259, D80378, T03269, D80268, C14014, D50995, F13647, D80241, C15076, D80949, D59787, D80164, C14389, D81026, D58253, C14331, D51250, D51060, AA305409, D51079, D59467, D80168, D81111, AW178893, C14227, AW177440, AA285331, D80522, Z21582, D51022, AW179328, D80064, AI910186, AW178775, AW378532, D80248, D59695, AA305578, C14298, AW377671, AW369651, AW352158, D80251, AI905856, D52291, D51097, D80133, AW178762, AA514188, AW177501, AW177511, AA514186, AW360834, C05695, C14407, AW360811, D80439, AW352117, D80132, D80157, AW176467, AW378540, AW375405, D59373, D80014, AW179220, AW366296, AW360844, AW360817, T11417, AW375406, AW378534, AW179332, AW377672, AW179023, AW178905, AW377676, D80302, AI557751, AW352171, D51759, AW178906, AW352170, AW177731, D80247, AW178907, AW179019, AW179024, D51213, T02974, AW177505, AW179020, AW360841, AW178909, AW177456, AW352174, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, T03116, AW179004, AW179012, AW178914, AW378525, AW367967, D51103, D58246, D80258, AW177722, AW177728, AW378539, D59653, AW179009, C06015, AW178774, AW178911, AW378543, AW352163, D59503, C14077, D58101, AW178983, AW352120, AW178781, T48593, D59627, AI557774, AW177723, D45260, AW177508, C14975, AI535850, AW378533, C03092, H67854, AW367950, AW177497, D80228, H67866, AA033512, AA809122, AI525917, AI525923, AW178986, D51221, AW177734, D59317, D45273, C14344, D59474, C14973, D50981, AI525920, AA514184, C14957, D60010, C14046, AI535686, AI525227, D59551, AI525235, D60214, AI525215, T03048, AI525912, AI535961, AI525242, AW378542, C05763, AI525925, AI525222, D51053, D31458, C16955, Z33452, A62298, A62300, A84916, AJ132110, X67155, A67720, A78862, D89785, A25909, D26022, D34614, AR018138, Y17188, D88547, AR025207, X82626, AR008278, AF058696, I82448, X68127, AB028859, AB012117, A85396, AR066482, Y12724, A85477, A44171, U87250, I19525, A86792, X93549, A82595, AR060385, A94995, AF135125, AB002449, AR008443, I50126, I50132, I50128, I50133, AR060138, AR066488, AR016514, A45456, A26615, AR052274, I14842, AR064240, AR066490, A43192, A43190, AR038669, Y09669, AR066487, I18367, A30438, D88507, AR054175, D50010, Y17187, A63261, AB033111, AR008277, AR008281, AR008408, AR062872, A70867, AR016691, AR016690, U46128, Z32749, A64136, A68321, D13509,</p>

					AR060133, I79511, S69292, U87247, AB023656, U79457, AF123263, X72378, AR032065, AJ000347, X93535, and AR008382.
					N31451, and N41451.
HNHFH23	7658	675942	1 - 721	15 - 735	AA136943, T02866, AA315673, AA179174, AA361929, AL120645, AA736954, AA834194, AA778965, AA577825, AA578664, AA668252, AA218852, AA983440, AA775329, AA486768, AA167544, AA603182, AA583392, AA582052, AA618459, AA662979, AA601625, AA188692, AA935394, AA584747, AA167492, AA180454, AA680277, AA834071, AA663367, AA663004, AA630430, AA713821, AA219034, AA206780, AA714486, AA584834, AA486097, AA504875, AA169233, AA773954, AA584435, T65750, AA489989, AA121767, AA577875, AA668151, AA464930, AA584534, AA451922, AL047233, T03057, AI538493, AA601406, AA167538, AA593497, AA169344, T59619, AA663003, AA720805, AA720777, AA489999, AI880288, AA668699, AA780751, AA490015, AA211180, AA679143, AA721049, AA457219, AA971198, AA775210, AA586654, AI267399, AA577803, AA601418, AA577840, AA490246, AA577765, AA593542, AA458672, T49955, T03259, AA613193, AA564831, AA594081, H85238, AA662985, AA169228, AA169557, AA668372, AA487519, AA457507, AI253435, T56669, T48647, AA581910, AA976274, AL043280, T55332, AA584907, AI179985, AA434080, AA188953, M78222, AA563828, AA485874, AA773127, AA490019, AA586665, AA121840, AA601628, AA983272, AA490032, AA489850, AA668327, AA180281, AA490054, T59685, AA584459, AA581901, AA458783, AA782269, AA584627, AL119618, T59877, AA594706, AA778953, AA515456, AA485341, AA456926, AA989133, AA722310, AA774071, AA774057, AA668161, AA307312, AA126847, AA456941, AA601412, N25053, AA714107, AA772877, AA169346, AA490183, AA169351, AA180465, AA584768, AA613153, T49316, AA169553, AA325093, AA594173, AA663091, AA780820, AA357787, AA456943, AA584466, AA827415, AA112323, AA112316, AA664023, AA180338, AA601464, AA594015, T90675, AA679325, T57694, AI460363, AA593549, AA457652, AA121876, AA174132, AA761025, N79938, AA582414, T39228, AA680290, AA663500, AA594147, AA683281, AI267828, T96260, AA458713, AW129720, AA136934, T02841, AA584502, AA584625, H92599, AA657923, AA581172, AA456979, AA219051, AA136926, AA780730, T61944, AA487603, AA594753, AA587520, AA780571, AA421028, AA668406, N23864, AA490110, M77951, H70919, AA487044, AW394251, T57385, T03243, AA174113, T94872, AA121875, T94346, AA602130, AA176467, T50445, AA663223, AA179813, T93559, AA668285, AA577921, AA581666, T63467, AA834066, AA577773, AA214189, AA715716, AA663376, AA188838, AA188613, AA176906, AA457548, AA218913, AA601402, AA715738, AA490150, T47178, T41239, AA668241, AA721000, T92774, AA668412, AA218670, AA720943, AL138058, AC007392, AC003686, AL133249, AC005326, AL135784, AL035397, AC005019, AC004610, AP000078, AL096817, AC004886, AL049828, AL117337, AC011198, AL049589, AC006962, AF011889, AC006989, AF036235, AL022353, Z69648, AF198097, AC002478, AL031122, AC006336, AL022171, AP000952, AC003086,
HNHFF79	7659	638126	1 - 267	15 - 281	

					AC004028, AC002086, AC005187, AC006155, AL022725, AC007870, AC007425, AL078463, AL022400, AC007023, AF126403, AC005023, AC006385, AL121577, AC006925, AC004216, AL031116, AL109865, AF205588, AL008723, AL078644, AC007128, AC005297, L81653, U93569, U93565, M80340, AL139229, Z69838, AP000314, D87003, AC000365, AL035459, AC004694, AC006957, AC005248, AC004043, AP000194, AC006963, AL049713, AL096799, AP000141, AB020876, AL035594, AL109853, AF188024, AL117375, AL109620, Z92543, AC003051, AC004976, AL031274, AC006355, AC004056, AC003029, AC007002, AF106564, AC006054, AL035665, AF121898, AC004081, Z98946, AC002076, AL023806, Z92844, AC007350, AC007444, AC004957, AP000088, AC006070, AL031599, AL121852, AC007556, AC005510, Z98255, AC006039, AL022165, AC005537, AL078623, AC006079, AC009405, AC006239, AF165124, AC005908, AC002480, AL034384, AP000500, D87675, AC007250, AC002106, AC005549, AC002080, AL049861, Z96810, AC007254, AC002416, AC005349, AC005832, Z99570, AB017651, AC005209, M19503, U93574, U93564, U93563, AF148856, U93566, U93567, U93572, U93573, AJ010598, AL023095, AC006351, Z81145, AF020662, AC007013, AC005852, AC005491, AC004603, AC004711, AC004459, AC004200, AP000968, AC005688, AL109621, AC006002, AC007074, AL023382, AC004764, AF104455, AC005195, AL022575, Z95124, AL022308, AL031176, AL049859, AC004979, AC005885, Z72001, AL009176, AL096776, AL136363, AL033530, AC003090, AL031768, AC006061, AL078622, AL034407, AL021069, Z98172, AL049550, AL022578, AC011594, AC006383, AC007043, Z82212, AP000365, AL031656, AL031446, AL096677, Z95325, AC005090, Z82195, AL121825, AC003085, AL034561, AL022153, AL035464, AP000548, AC004000, AC004704, AC004879, AC006151, AL035409, AL022161, AL031985, AC005922, AC002980, AC004103, AC006975, AC007857, AL022097, AL137191, AC005344, AC006197, AL034410, AC005165, AC009479, AL049646, U82696, AC006479, AC007278, AP000696, AC008109, AC007347, AF176315, AL122023, AL035089, AC006992, AC002452, AC006265, AC005939, AL022726, AL079305, AL135960, AJ131016, AC004554, AL132985, AC002461, AL110505, AC006371, AL022401, AC005406, AC002069, AP000516, AC006566, AL133321, AF117829, AC004467, Z98751, AC005521, and AC005877.
HNHFF30	7660	692811	1 - 408	15 - 422	N55081.
HNHFE01	7661	916782	1 - 336	15 - 350	AA460407, AA459856, AI866714, AI024848, AW410737, T63986, U91321, AC002190, AC003003, AC006290, AL135879, and AL121790.
HNHFD68	7662	576448	1 - 310	15 - 324	
HNHFB21	7663	842707	1 - 111	15 - 125	
HNHEW83	7664	781217	1 - 571	15 - 585	T77842, AI818742, T86633, AI743761, and T86826.
HNHEW18	7665	666524	1 - 397	15 - 411	T86212, FI5260, and AC005369.
HNHEU20	7666	668909	1 - 442	15 - 456	N39725, and N31375.
HNHEQ03	7667	535701	1 - 682	15 - 696	AI679782, AA659324, AA812058, AA601218, AL045077, N79258, AW021774, AI769271,

AI284640, AI344810, AL046205, AI591299, AI590522, AL037910, AA584148, AI821467, AW022715, AL045709, AA581903, AW340844, AA720702, AI696962, AL046409, AI368745, AA314069, AW303196, AW274349, AI281881, AA494038, AW162049, AI929531, AW301350, AA765768, AA469451, AW029038, AW402458, F28204, AI370094, AI305766, AI499938, AA502683, AL038785, AA501614, AI064811, AA521323, AI564185, AI370074, AA565733, AI904894, AW062724, N22032, AA847499, AA521399, AA857486, AI339850, AW020992, AI590459, AI888405, AI610159, AW088202, AL037632, AL133749, AL039187, AL120976, AI654247, AW023111, AA482896, AI708009, T32050, AA491284, AI368256, AI004705, AW072587, AL034423, AC004477, AL096791, AF001549, AC002544, AF196969, AC006285, U62317, AF111168, AC003982, AC005940, AJ010770, U95742, AC016025, AC003043, AC009516, AC007731, AC004859, AC005288, AC005291, AC005500, AL008582, AC005488, AC007216, U91326, AC006057, AC004033, AC006312, AL121652, AL133448, AC007546, AC008372, AC007055, AC003962, U63721, U95090, AC005785, AC003029, AL031431, Z93783, AC006449, AC005841, AP000692, U95743, AC004526, AC005839, Z93241, AC005821, AC002316, AC002470, AC005225, Z97053, AC005837, AC007917, AC004821, AC005412, AL020997, AC007358, AL031985, AP000553, Y14768, AC005911, AC005004, Z97054, AC007225, Z98051, AC007566, AC004987, AC007371, AC005793, AC004815, Z93017, AP000557, AL049795, AC005914, AC002565, AC005632, AC006211, AC005531, Z95152, AL035458, AL121653, AC005921, AL080243, AC005037, AC005971, AC005082, Z83844, AF038458, AC002351, AP000556, AL031295, AC005411, AC004448, AC006077, AC007537, AL117352, AC002045, AC003950, AC005358, AC005726, AL050307, AL049776, AC003101, U47924, U80017, AC002425, AF126403, AC007021, AC005747, AL049553, AL021391, AP000505, AC004841, AL049766, AC005519, AC004797, U95740, AL031659, AC005808, AL022318, AC006270, AL022238, AL035587, AL135960, AJ131016, AC005544, AC006468, AC002477, AC005756, AL049694, Z84466, AL031577, AC005088, AC005154, AC005332, AL133163, AL121658, AC006023, AC002300, Z99128, AC006146, AC004890, AC004996, Z85986, AL022313, AL049829, AL034549, AP000689, AC005280, AC006271, AC016830, AC002558, AC005049, AP000114, AP000046, AC004046, AC004813, AC004596, AL049780, AC007878, AC011422, AL021155, AC001228, AC007688, AC002347, AC006487, AP000346, AC004598, AP000512, AL132777, AC006153, Z83838, AC005529, AP000356, AL008633, AP000101, AC002400, AP000694, AC006251, AC006539, AL009181, AC007308, AC006101, AC005015, AB023049, AL035683, AC007387, AL022323, AL135744, AP000248, AL020993, AC006006, AC016027, AL031311, AP000049, AF037338, AC007666, AC004099, AC006966, AL023799, AC006014, AL023553, AP000311, AF001550, AL117258, AL031005, AL022722, AL132712, AC004997, AC004491, AC011718, AL050318, AC004148, AC005005, AC007664, AC004000, AC007312, AL109627, AC008018, AC002350, AC004531, Z97832, AC000353, Z68870, AB001523, AP000088, AC005192, AC004032, Z99716, AC012384, AL022163, AC005011,					
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HINHEP86	7668	490390	1 - 493	15 - 507		AW238712, AA715955, AI280266, AA351808, AA158549, AL045476, AA936718, AI053977, AA551056, F17700, AI242502, R70883, AA309634, AA838091, AI457596, AL134615, AA654482, AI192440, AI049630, AA650447, AI280535, AA371534, AI198718, AI054418, AI557422, N95156, AI870453, AA516320, AI612142, AA362697, AA634926, AI610941, AA728861, AI753536, T07878, AI624379, W24312, AW268322, AI079196, AA570441, AI272649, AA487569, AA071045, AA526424, AI969639, AA074351, AI446561, H85808, AI031283, AC007637, AC006006, AC006965, AC002511, AC002430, AC007384, AC008273, AC000379, AC005220, AC002302, Z84487, AC006236, AC000120, Z82198, AC004820, AC002091, Z83843, AC002312, AC003051, AC005015, AL137191, AC006023, AL078477, AC011456, AL049589, AL109842, AC006511, AL023575, AL133312, AL109623, AL133246, AL022718, AL049832, AC002476, AC006317, AC005529, Z85987, AC002465, AC006515, AL133163, AL031000, AL050309, AP000245, AL109839, AF001549, AC005887, Z99495, AC005013, Z95116, Z82205, AL049834, AF031078, AL009172, AC003012, AF030876, AC006924, AC006013, AC000039, AC003010, AL031650, AC005102, AC006115, AC005670, AP000077, AL109963, AC002527, AC005839, AC007934, AC007225, AC003108, AC005746, AL049875, Z97181, AC002558, AL021396, AC004882, AC004131, AL009174, Z84466, AL049829, AL035448, AC005017, AC006578, AC008085, AC000071, AL049765, AL049869, AL031864, AL096712, AC005084, AF172277, AC006035, AL121754, AC002519, AC002425, AL122020, AC005988, AF118808, AC004750, AL133241, AL034429, AC004647, AC007099, AL109809, AL022336, AL133224, AC004659, AC005355, AC004814, AC005089, Z98304, Z93244, AL109758, AC004973, AC000353, AC007388, AC006065, AL096776, AC008009, AL031678, AC002531, Z82193, AC002991, AC006952, AC006600, Z82201, AC006365, AC006062, AL133216, AC004749, S42653, AL031985, AC002126, AC004905, AC005772, AC007308, AL033533, AC012627, AC005902, AC005972, AC003043, AC005156, AL031673, AC002429, AL031584, AB017602, AL031133, AF053356, AL031622, AC004025, AC005057, AF043945, AC008928, AC005625, AL031846, AC003070, AC004531, AF002223, Z82194, AP000513, Z86090, Z85996, AC007055, AB023049, AC004843, AC006084, Z83826, AL031054, AL049694, AC004881, AC005763, AL022326, AC004894, AP000692, AC005332, AC000052, U91322, AF190465, AC004842, AF088219, AC006312, AC003685, AL050350, AC005034, AL109628, AL033504, AL035661, AL079295, AC002470, Z68756, AC007051, AC005786, AL031121, AC005535, AC006211, AC005225, AC003684, AC006430, AC004938, and AC005209.
HNHEL72	7669	760706	1 - 321	15 - 335		AA174128.
HNHEL34	7670	706636	1 - 558	15 - 572		AA410476, R05546, R24833, AW402115, AA356328, AA279222, and AC006011.

HNHEL27	7671	506284	1 - 461	15 - 475		
HNHEK69	7672	757649	1 - 522	15 - 536		H10749, and Z99127.
HNHEJ78	7673	800165	1 - 303	15 - 317		
HNHEJ20	7674	669763	1 - 458	15 - 472		H06131.
HNHEI90	7675	888553	1 - 305	15 - 319		AI672925, AA639776, AL033376, Z93023, AL049576, AC006581, AC003101, AC005015, AC002302, Z97054, AL035419, AC002331, AC005089, AC012384, AC002430, AC007384, AC005094, and AF069291.
HNHEI37	7676	419752	1 - 286	15 - 300		AA262778.
HNHEH28	7677	973296	1 - 460	15 - 474		H55523, and AL022329.
HNHEG71	7678	760464	1 - 194	15 - 208		AA654661, AI345366, AI310873, AA167792, F00107, AL041894, AI926728, AL118991, AI253382, AA551552, AA504694, AI085242, AA584438, AA833896, AA833875, AA376760, AA579205, AA581170, H72530, AI908575, AW275498, T59724, AA586661, AA630145, M77893, AA224238, AI915205, AA594072, AA351003, AW328000, AA559329, AL050312, AC003037, AL121915, U52111, Z69720, AL049569, AF030453, AC007999, AL031283, AL035587, AL035398, AL031281, AC005067, AL034420, AC001231, AC005512, AL133245, Z97181, AC002316, AC002352, AC005520, AC005730, AC006571, AC004821, Z99716, AC004975, I47234, Z95116, AL022329, AP000349, AL021579, AC002300, AC003693, Z82206, AC004622, AL023879, AC004000, AL035685, AP000505, AC005940, AC007546, Z98048, AP000065, AL049766, AC005859, AC007774, AC007666, Y14768, AP000250, AC006285, AL079342, AJ006345, AC005071, AP000350, AC005225, L78833, AC005821, AL034429, AL049776, AC002404, AL121655, AC005288, AC007406, AP000261, AC004051, AF001552, AL078634, AF196969, AP000558, AC004659, AC005722, AC005088, AC005095, M89651, AC007686, AC002039, AC007845, AL035422, AC007541, AC016025, Z93241, AL022316, AL049646, AC006023, AC005695, Z94160, AL021707, Y10196, AC005516, AC004967, AP000240, AP000035, AP000100, Z84466, Z97630, AC004263, AC002398, AC007225, AF088219, AP000127, AP000205, AC007227, AC005183, AL023284, AL031594, AC005578, AL024498, AC009516, AP000030, AP000211, AP000133, AP000245, U85195, AC005632, AC005197, AL133448, AL008718, AC005971, AC006480, AC006449, AC004686, AC004129, AP000096, AP000555, Z98200, AC005952, AL049830, AB020866, AL049759, AL031255, AC006241, AE000658, AC012627, AL031846, AC005786, AC004849, Z97989, AL133353, AC004491, AL133382, AC007664, AL109759, AP000512, AC003046, AC004765, AC002525, AL022576, AC006328, AL031681, AI006996, AC002430, AC004675, AC004386, AC006430, AL031733, AL133371, AC003042, AC005190, AC008040, AC005189, AL031295, AF196779, AB023048, AL109798, AL021392, AC007011, AF031078, L78810, AC004257, AJ010598, AC002378, AC004458, AC007172, AC009946, AL121653, AL049873, AC007384, AC000029, AL033521, AL122021, AC005081, AC007050, AC007055, AC003103, AC006530, AC004131, AC002996, AC005180, AC007390, AL022165, AC005060, Z84477, AC004878, AC005328,

HNHEF53 HNHEF08	7679	576417	1 - 350	15 - 364	AC002504, AC005921, Z69705, AC006026, AP001056, AC005358, and AL024507. AL121871. AA809125, AL1732151, AI962030, AI078409, AI755214, AI754567, AI223968, AI754105, AI733856, AA769130, AA536040, AA630854, AI653776, AA579130, AW082104, AA947369, AA410788, AA225406, AI751180, AI792464, AI186438, AA176978, F35374, AA772906, AA515939, AI635028, AW272294, AI826761, AA492495, AI017251, AA126635, AI874201, AI801563, AA634991, AI249688, AA714288, AA297666, AL038842, AA704393, T57767, AI499954, AI923052, AI038304, AI866487, AA579152, AA714110, AA832444, AI820963, AA228778, AW419389, AI446500, AW131356, AI471572, AA251356, AI569100, AL041375, AI284045, AA584493, AA702605, AI355007, T09219, AA713705, AA541532, AA527209, AA011037, AW192599, H23467, AW275953, AA563770, R81017, AW277174, AL079734, AA487226, AW237905, AA904211, AA525807, AI056177, AI923451, AA130647, AW157005, AA598927, AA557911, AA765925, AW270768, AA572813, AI053784, AI343169, AA228824, AA665021, AI452836, AI291037, AI923458, AW275432, AI244157, AW276935, AI076236, AL045476, AI004591, AW271904, AW151247, AI446452, AA644090, AI053977, F03525, AI870453, AA456924, AI689019, AA197218, AI365625, AA746911, AA601278, AI150670, AI619738, AW243808, AA313133, AW023111, AI038606, AA176604, AW301809, AI683514, AA133013, AW088665, AW265006, AL135377, AW327624, AA492584, AC005412, AJ236701, AL031283, Z98946, AC006430, AC005280, AC005531, AC005500, AC000353, AC005808, AC002302, AC006080, AL022165, AC005180, Z97180, AC006511, AC009509, AC005089, AL009183, AC002563, AC004805, AC004033, AL024498, AC006271, AC004067, AB015355, AL117339, AC004000, AL139054, UI7576, AC005971, AC005822, AL022320, AL022721, AC005229, AL049776, AC006112, AC006111, AL031053, AC007371, AL049829, AC005072, U95739, AC006011, AC005406, AC006512, AB023060, AL050307, AL133246, AL049779, AL035089, AC005086, AC006211, AC012384, AP000432, AL031681, AL136168, AC005519, AF134726, AL031985, AC004687, AC005841, Z98941, AL031287, AC006571, AC006116, AC005324, AD000671, AC007308, AC000159, AC005736, AL035086, AC004050, Z83845, AL008718, AL133553, AP000510, AC004859, AL035420, AC005231, AC005399, AC003101, AC007458, AL035400, AC004685, AC002301, AL031311, AC004858, AL035683, AL080243, AC005722, AC005800, AC006441, AL035659, J03071, Z93244, AP000356, AC004605, AL133216, AL121769, AC005821, AC004087, AL022336, U91318, AL117258, Z85996, AP001053, AL031055, Z82244, AC005922, AC005696, AC002470, AC002477, AC005913, AC004890, AL024509, AC003041, Z99716, AC002395, AC006930, AC006142, AL031643, AC004884, AC005409, AC004049, AC005919, AF047825, AP000065, AP000123, AP000055, AP000170, AC006312, AF196779, AC010197, AC005899, AL034351, AC006537, AL049712, AC005015, AC003692, AC005993, AL022345, AC004453, AL049775, AF165926, AL033376, AC006449, AP000502, AC005562, AC010205, AL035413, AP000044, AP000112, AC004811,
	7680	958854	1 - 494	15 - 508	

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HNHEE03	7681	924619	1 - 472	15 - 486	AA464805, AW196893, AI808181, AW131666, AA130204, AC007386, and AB011154.
HNHED88	7682	576529	1 - 486	15 - 500	
HNHED18	7683	666594	1 - 665	15 - 679	R94571, AI247753, and AA678053.
HNHED25	7684	973295	1 - 639	15 - 653	
HNHEDY14	7685	542062	1 - 706	15 - 720	AA441960, AA372392, AI358948, AI160732, and AL022165.
HNHDX57	7686	734933	1 - 458	15 - 472	W32067, and AF136745.
HNHDX30	7687	692875	1 - 441	15 - 455	W01704.
HNHDX94	7688	883870	1 - 556	15 - 570	AI345256, AI826857, AI308529, AA046906, AA157876, AW265468, AA017583, N99245, AI520984, AW410844, AA527633, AA047057, AA019793, AI571094, AA132929, AI003068, AW021674, AL121039, AI702049, AW162314, AI819419, AW157128, AI872229, AW029626, AA313025, AA828840, H62123, AI049999, AI254267, AI038029, AI791720, AI791408, AA579082, AI888050, R92703, AW162762, AA425283, AI570067, AA618531, AA635433, AW162332, AA633068, AA554289, AI572680, AW274180, AA557945, AI457152, AL039117, AI318548, AI828721, AI754926, H47461, AI521019, AW192930, AI251024, AL119909, AI815210, AW023390, AA610644, AL138262, AI744963, AI445699, AI064968, AW028376, C75332, AA829199, AI344906, AA367920, AI744259, AI884404, AA112864, AA525818, AA664963, AA779599, AI907521, AI253347, AA021061, AA419014, AA652675, AA493245, AI571894, AI000314, AI753131, AA604601, AI885896, AA636077, AI860648, AI805556, AI028148, AI805373, AA494313, AI744890, AW085626, AA632355, AA601336, AI734193, AW338633, AA748071, AA455202, AA847341, AI825901, AW341955, AW084152, H86399, AW238137, AI434103, AA826109, AA629668, AI567676, AI281622, T10292, AA084148, N49298, AI446618, AI745666, F30357, AI288350, W69639, AI734158, AA167656, AA935827, AA657392, AI573198, AA728911, AL043095, AI640905, AI538404, AI751698, AA524604, N57782, N95217, AA846014, AI744766, AW337483, AA829669, AW022796, AA661583, AI300608, AA657808, AI459879, AA523718, AI619933, AC005768, AC005015, AC004876,

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				AA458568.	
HNHDW16	7689	422903	1 - 347	15 - 361	
HNHDV95	7690	559341	1 - 743	15 - 757	
HNHDV93	7691	792467	1 - 465	15 - 479	H47358, H93774, H47450, H93887, AA341061, AA314420, AA313108, AW300902, AA314241, N55700, AA225897, AF147425, AF161523, and AF151868.
HNHDV16	7692	863116	1 - 592	15 - 606	
HNHDT83	7693	974277	1 - 425	15 - 439	

HNHDT33	7694	576483	1 - 154	15 - 168	
HNHDT32	7695	573332	1 - 110	15 - 124	
HNHDT19	7696	573355	1 - 145	15 - 159	
HNHDT12	7697	576464	1 - 132	15 - 146	
HNHDT05	7698	932223	1 - 431	15 - 445	T19850, AA456956, and T19851.
HNHDM15	7699	660509	1 - 584	15 - 598	W58300, W58191, AF088040, and AL024498.
HNHDM40	7700	574312	1 - 309	15 - 323	
HNHDM03	7701	924895	1 - 320	15 - 334	
HNHDM07	7702	953883	1 - 383	15 - 397	T49747, AA077952, AI018726, AA774119, AA805901, N99715, AI570261, AA340003, AI354369, AI064952, AW193432, AI376197, AI459866, AA843450, AA229785, AI017733, AI914706, AI890923, AW029038, Z22626, AA468289, AI732682, AA218645, AL046409, T12272, N25927, AW304584, AL138421, AI804544, AL079935, F28576, AI569086, AA973575, AW438539, AI038279, AW337985, AI079910, AW130799, AI445436, AI866807, AI890052, AI963786, AW103918, AI963263, AL046746, AL079645, AL042856, AA394078, AI038785, AI003743, AI564589, AL120483, AI761471, AA569284, AA344959, AL041368, AI049722, AA535661, AA827383, AW117936, AW276827, C06327, AI289067, AW088202, AI433284, AA977743, AA515051, AW440836, AI610159, AA339487, AI431303, AI223626, AA664535, AA443390, AI567674, AW104748, AL118567, AI474713, AI951889, AI951928, AA384502, AW264969, AI246061, H92005, AA633068, AI887483, F24792, AA664248, AI003172, AA635417, AW074398, AI054090, AI963720, W60516, AA192740, AA178953, AI251241, AI249853, AI205126, AL039309, AI284543, AA470581, AI254770, AA551509, AI802526, AI251944, AA584489, AI251034, AI251203, AI251284, AI469172, AI814735, AI250552, AI547286, AA828662, AA460880, C05755, AI421213, F31204, AW131034, F19258, AA515128, H37821, AI053465, AI133164, AW339568, AI653783, AW192199, AC004923, AF140763, AL024497, AC006296, AC007911, AL033381, AC005184, AL031733, Z77894, AL049760, AP000563, AP000133, AP000211, AB017602, AC006270, AL022323, AC006966, Z93023, AC005596, AC005370, AP000513, AB023049, AC005220, AB020839, Z99571, Z85999, AL031662, Z84478, AC000378, AC010197, AC007938, AC000159, AC002451, AC006064, AC004462, AL021453, AC005040, AC006261, AC006132, AC005661, AC006205, AC018633, AC005062, Z83827, AI033504, AC004844, AC004821, AL035089, AC005771, AL132777, AC004186, AC004189, AL031286, AC006999, AL021878, AC004848, AC004859, AC006312, AC002985, AC005251, AC005249, AL136297, AC005409, AC000353, AC007731, AC004506, AC006263, AC005247, AC007970, AC005500, AC000026, AL117330, AP000093, AC003957, AP000237, AF107258, AC002350, AC004885, Z85996, AL031054, AC005342, AC002369, AC002382, AC006115, AC009223, AC006057, AC002059, AF169121, U52112, AC004493, U77080, U77078, AL031721, AC004230, AC004000, AC008115, AC005341, AC005899, Z81370, AC010077, AF003627, AC004814, AP000193, AL034451, AP000050, AC003964, AP000311,

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HNHDD52	7703	520297	1 - 325	15 - 339	AI933478, AI933486, AI923052, AI804546, AA559166, AL037777, AI857261, AA244415, AI252726, AA321148, AA581342, AA524846, AI246796, AW013952, AW193432, AI050007, AW069227, AW161459, AA678970, AI383965, AI185122, AW161879, AI634187, AI191343, AI457313, AW243706, AI003797, AA936548, AA316535, AI355281, AA604607, AW078495, AA304857, AI282661, AI289067, AL045107, AI026710, AA364567, AA342958, T60029, H94871, AI828669, AA854782, F31746, AI018726, AI431303, AI473090, AL079869, AA985038, AI926089, AI249688, AA828851, AI038304, AI752369, AI754567, AI569100, AW192599, AI754105, AW131356, AI755214, AI613261, AL118911, AI039761, AI080307, AA776922, AW151201, W16925, AI799569, AA078084, AA847216, R76463, AI469624, AI924855, AA654998, AW243960, AA804732, AI633479, AI828710, AA394271, C75026, AA114053, AA847821, AI471534, AI683577, AI380617, R44592, AA226346, AL041019, AI005388, AL041018, AA724230, AI471729, AL047643, AW276827, W03190, AW102944, AA179165, AI879000, AI689198, T62975, AW074207, AI282832, AA558697, AA528634, AI370270, AL042547, AA374705, AW272389, AI859744, W61253, AA365144, AI926366, H64777, AI471481, AA577719, AI799683, F18403, AA747620, AI668566, AA515751, AI339302, AW008231, AI801695, AA653057, AI905408, W94226, AI287964, AW192297, N99715, AW151637, AW151645, AW151646, AW151870, AW008217, AI216978, AW363120, W92961, AA843450, AI039968, AI061292, AA491814, AI003172, AI061134, AW274182, AI572581, AA502572, AW363118, AI499134, AI339182, AW340922, AI051551, AW103415, AL041706, AI241372, F34465, AA279517, AA573002, R76765, AA159006, AA676621, AW316542, AI911901, AI754195, AW328174, W60516, AL046409, AW020340, AW152205, AA133986,

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HNHDC29	7704	904546	1 - 207	15 - 221
HNHDB69	7705	757760	1 - 402	15 - 416
HNHCZ84	7706	782897	1 - 673	15 - 687
				AW438539, AA601202, F12561, AI963221, AA568623, F08248, W02565, H07953, R61498, AA584733, AA829036, AA588001, AW337237, AI133573, AI431434, AA644090, AL138182, AW022655, AI690497, AA728873, AI536857, AI889566, AC005274, AP001069, AC007058, AL132642, AJ251973, AC005697, AC004854, AC004832, AP000330, AP000690, Z98304, U87223, and L77577.
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HNHCY96	7707	796547	1 - 737	15 - 751	
HNHCY07	7708	953878	1 - 685	15 - 699	AI091257, AC002430, and AC007384.
HNHCY06	7709	936061	1 - 261	15 - 275	AI341576.
HNHCU08	7710	959944	1 - 357	15 - 371	T89316.
HNHCO94	7711	796745	1 - 254	15 - 268	AA780572, and N22524.
HNHCO69	7712	754189	1 - 350	15 - 364	AA242903, and AW167557.
HNHCO39	7713	705641	1 - 281	15 - 295	AA191568, and AC002111.
HNHCM69	7714	757751	1 - 354	15 - 368	H58980, and AI902634.
HNHCJ11	7715	964952	1 - 198	15 - 212	
HNHC132	7716	861673	1 - 586	15 - 600	AF112462, and AR035954.
HNHCG43	7717	574074	1 - 203	15 - 217	
HNHCG32	7718	574080	1 - 148	15 - 162	
HNHCD33	7719	702679	1 - 641	15 - 655	H94849, N71428, R98526, H58466, N99381, and R98479.
HNHCA27	7720	668255	1 - 451	15 - 465	AA577825, AA713821, AA486097, AA583392, AA603182, AA179985, AA584534, AA167544, AA451922, AA773127, AA582052, AA489989, AA464930, AA578664, AA577765, AA167492, AA577803, AA577840, AA504875, AA577875, AA126847, AA581666, AA594706, AA601406, AA169344, AA613193, AA487519, AA662979, AA775210, AA169233, AA490015, AA457219, AA983272, AA834194, AA490019, AA601418, AA167538, AA169557, AA584834, AA206780, AA188953, AA584435, AA169228, AA668372, AA581901, AA780751, AA613153, AA601412, AA490246, AA772877, AA601625, AA121767, AA180281, AA668327, AA722310, AA563828, AA668699, AA456926, AA680277, AA601464, AA121840, AA169346, AA663091, AA594753, AA668151, AA594147, AA490054, AA456941, AA593549, AA112316, AA456979, AA219034, AA584907, AA60363, AA714486, AA490110, AA775329, AA564831, AA663367, N25053, AA584502, AA679143, AA983440, AA720805, AA577773, AA456943, AA434080, AL047233, AA834071, AA581910, AA736954, AA458783, AA584459, AA112323, AA593542, AA490032,

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HNHBZ39	7721	860113	1 - 272	15 - 286	AL049591.
HNHBX96	7722	796539	1 - 368	15 - 382	T89446, AW298359, and A1081000.
HNHBW54	7723	583752	1 - 408	15 - 422	AC004531, and AC006007.
HNHBU02	7724	920662	1 - 268	15 - 282	AA490179, AA586883, and AC007263.
HNHBO78	7725	574093	1 - 291	15 - 305	AA808994, AL044322, AF146191, AL122020, AC004828, and AC005067.
HNHBK57	7726	490789	1 - 494	15 - 508	AI205181, AA229785, AI796594, T07213, AW105737, AW193432, AA578967, AW270768, AI446205, AA745582, AL119259, AA347927, AI281474, AA605266, AA828867, H64777, AW008074, AI865776, AA347930, AA206475, AI291037, F31867, AW440976, AW157005, AW236342, AW275719, AW277174, AW341903, AI028510, AA664248, F19012, AA569706, F23327, AW383542, AA747375, AI984593, AA992126, AI625244, AA653139, AA743811, AI148245, AA657835, AI803809, T48723, AI624528, F00533, AI289067, AI431303, AA888777, AI688846, R83838, AL119838, T06828, H95769, AA779783, AI189932, AI613280, AA728894, AW250970, AW383586, AI753365, AW383440, AW383608, AW383628, AW383455, AW383629, AI040313, AI832782, H86579, AI291124, AA654968, AI284595, AA557879, AA715850, AI192631, AI291268, AI524540, AI610607, AI537030, H57846, AA779075, AA608683, AW380074, AA828047, AA346454, AI890688, AL120483, AA936859, AI986251, AA728861, AI246796, AI061313, T57604, N29941, AW383605, AI654529, AA657416, T05101, AA533408, AW338086, AA578695, AW383624, H79308, AI888441, F23272, AI874201, AW383606, AA865262, AA525190, AA653221, AI688928, AL040948, F18974, AI431232, AI910609, H54443, AI804604, AL078581, AC007617, AC005632, AC005539, AC006480, AL031256, AB018280, AC004531, AC004797, AL031291, AC006208, AL020995, I44140, AC002476, AC007486, AL049760, AB017652, AC000041, AC002122, AC000353, AL031295, AC008044, AL035417, AL031594, AB020859, AC005043, U85195, AC006285, AE000658, AC004167, AL096791, AC005207, AC005620, AC005062, AP000049, AP000116,

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HNHBI48	7727	860125	1 - 535	15 - 549	AI541374, AA585101, AI525556, AI525431, AI540967, C16300, AI541365, AI557807, AA585439, Z28355, AI541307, AI541017, AI541523, AI541535, Z30131, AI546999, AI557799, AI541514, AI546828, AI525306, AI547039, AI535639, AA585476, AI541510, AI546891, AI546945, AI526194, AI525316, T11028, AI546855, AA585453, D61254, AI536138, AI557238, AI526140, R29445, AI557731, AI541013, AI525328, R28735, AI541534, AI541390, AI541345, AI556967, AI546875, AI525320, T23957, AI557262, AL037436, AI541508, AI557787, AA585356, T41289, AL037435, D57491, AI541509, AI525653, C16305, AA585434, AJ239433, AI540882, R29177, AI526187, AI557796, AI526073, AL040463, AL039915, AI043612, AL041197, AL040155, AL041346, AL041096, AL047012, AL041358, AL041277, AL041163, AL041098, AL040621, AL043538, AL041324, AL040464, AL044162, AL041086, AL043496,

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HNHB102	7728	918387	1 - 803	15 - 817	
HNHBG42	7729	714044	1 - 360	15 - 374	N35304, AI377191, AA256944, AI803128, and AI332632.
HNHBF78	7730	773747	1 - 583	15 - 597	AA176868.
HNHBF47	7731	949027	1 - 911	15 - 925	AI042580, AB028499, and D87469.
HNHBE75	7732	766526	1 - 480	15 - 494	R42061, and AC006561.
HNHBD73	7733	764293	1 - 561	15 - 575	AA598889, AA877462, AA729004, AI636422, AA460880, AP000692, AC005837, AL080243, AC006263, AC005328, AC005933, AL022476, AL031685, AC004922, AL008718, AC004974, AC004967, AC004752, AC006388, AC002350, AC006443, Z98048, U82696, AC006538, AL034420, AL050307, AC005318, AL031983, AC004882, AC005399, AC005480, AC005519, AC005911, AC002418, Z93023, AL033504, AC006581, AF196779, AL122020, AL133163, Z95152, AL031657, AC005726, Z98044, AC007308, AC006261, AL050320, Z80771, AC004534, AC007228, Z97630, AC006315, AC007934, AC006137, AP000260, AL049562, AC005372, AC005670, AL035684, AC007537, AC000353, AC006312, AP000099, AC007917, AC004663, AC005288, Z82198, AL031284, AL031311, AC005565, AC005531, AC004812, AF067844, AC005821, AC005037, AC004797, Z97352, AC006162, AC005375, AL020995, and AC007387.
HNHBC77	7734	772452	1 - 261	15 - 275	N92834, W25061, and AC005074.
HNHAP69	7735	574295	1 - 256	15 - 270	
HNHAP55	7736	574386	1 - 328	15 - 342	
HNHAP32	7737	574393	1 - 267	15 - 281	AC004849.
HNHAP08	7738	959961	1 - 225	15 - 239	
HNHAM81	7739	574402	1 - 103	15 - 117	
HNHAM80	7740	574404	1 - 146	15 - 160	
HNHAM33	7741	571334	1 - 107	15 - 121	AC006443.
HNHAK41	7742	890594	1 - 450	15 - 464	AI732977, AA907815, AA911504, and AB023421.
HNHAI41	7743	712605	1 - 221	15 - 235	
HNHAI07	7744	954088	1 - 156	15 - 170	AA017301, AA054227, and R85894.
HNHAF61	7745	742116	1 - 673	15 - 687	AI361882.
HNHAE19	7746	527975	1 - 551	15 - 565	W32160, H12099, F11591, R24785, F07709, AF152473, AF152303, and AC004776.
					AA732587, AA747437, AA207014, AA047644, AW015259, AA283881, and AA262271.

HNHAB36	7747	596822	1 - 954	15 - 968	<p> AI733856, AW190505, AA702605, AW270258, AA533176, T05834, R91911, AA550850, AW327624, AA659535, AA601278, AA233465, AA515728, AW117740, AI732120, AA857296, AA618263, AW300749, AI493264, AI628224, AA085587, AA525153, AI367523, AI927094, AA668291, F04697, AA579130, H71678, AA324186, AI636627, AI678785, AI809818, AI829331, AA812058, AI570943, AA454177, AI888468, AA508809, AI040051, AA779783, AA491284, AA600202, AA602906, AI457597, AI630283, AW192330, AI144094, AA262752, T74524, AA862312, H07953, AW004884, AI053981, AA573068, AW157492, AA350596, AA229912, AB003151, AC004408, AC005529, AF134726, AL035086, AC005253, AP000689, AC005527, L44140, AC005184, AC005071, AL031276, AC005005, AC007221, AC005903, AL049874, AC012627, AC006111, AC002072, AC004019, AC004841, Z99716, AC002350, AC009516, AL121658, AL049543, AL031432, U95742, AP000013, AP000155, AL023575, AL031005, AL031297, AC005694, AP000025, AC003029, AL034420, AC005482, AC000353, AC002395, AC004858, AC007934, AL009181, AL133448, AF001552, AC005940, AL008582, AP000049, AC005519, AC004595, AC000052, AC006064, AC004765, AL133163, AC007216, AC005399, AP000311, AP000359, AC005907, AC004967, AC006285, AL121603, AC007226, AC002563, AC005004, AC005899, AC008115, AL022069, AP000030, AC005363, AL035413, AC005146, AC006079, Z84469, AC004745, AC002331, AC005057, AC004686, AL133238, AC006126, AL034343, AC006312, AC006960, U62293, AC007227, AP000505, AL109628, AP000251, AC002991, AL050307, AF129756, AC003013, AL034548, AC002316, AF196969, AC005619, AL049872, AC003109, AL035398, AC007845, AC002527, AC005520, AL049829, AL033392, AC002301, AC005288, AC005089, AC007993, AL031447, AC005081, AC002045, AC016026, AC002310, AL034549, AL080243, AC005544, AL121652, AC002126, AC006120, AC020663, AC005914, AP000512, AC007263, AF019413, AC003101, AL133445, D84394, AC004878, Z98200, AC007421, AP000558, AL049694, AL035420, AC005971, AL008719, AC004645, AC000026, AC004905, AL021546, AC004854, AL024498, Y14768, Z86090, AC006480, AC006333, AL035415, U07563, U63721, AL022320, AC004859, AC007371, AC007200, AL049776, U85195, AC002477, Z99774, AL049761, AC007283, AC006511, AL109984, AC002544, AP000065, Z98749, AC007919, AC005781, AF117829, Z85986, AC008372, AL031722, U91321, AE000658, AL109801, Z94802, AC005837, AL009179, AC005015, AC003688, AC003950, AC005779, AC006479, Z83843, AC007999, AC004517, Z92542, AC006211, AL096791, AC005104, AL049697, AC007676, AL109839, AL008725, AC005411, AC004890, AF207550, AC005800, AC002059, AC006952, AP000502, U47924, AC005578, AC006001, AL031587, AL022313, Z94056, AC007686, AC002470, AP000134, AP000212, AL035461, AL109799, AL031427, AC007649, AL031281, AL132796, AC005086, AL022165, AL133371, Z93017, AC007406, AC002425, AC006275, AC004996, AL031055, Z68224, AP000023, Z83826, Z84487, AC004750, AC005874, AF134471, AC005513, AC005189, AL050341, AP000964, AC005539, AL035071, AC004999, AL022336, AL021807, AP000193, </p>
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HNHAB15	7748	973675	1 - 626	15 - 640		
HNGPR43	7749	860142	1 - 291	15 - 305		H65099, and AA601342.
HNGPP74	7750	974046	1 - 724	15 - 738		
HNGPN54	7751	947104	1 - 466	15 - 480		
HNGPM65	7752	972821	1 - 292	15 - 306		AC007429.
HNGPL75	7753	950134	1 - 1119	15 - 1133		AA773970, AA768044, and AC005332.
HNGPL05	7754	974049	1 - 528	15 - 542		AC004541.
HNGPI87	7755	860162	1 - 491	15 - 505		AA169191.
HNGPH83	7756	974045	1 - 217	15 - 231		
HNGOZ40	7757	969158	1 - 607	15 - 621		AA132013, AW014651, AI675608, AI248426, AW071964, AI480054, AW002112, AI248788, R44057, AI890868, W88679, AI566382, AI014337, AA768893, AA404555, AA992522, AF155098, and AF135016.
HNGOY68	7758	860169	1 - 676	15 - 690		AI073971, and AW058089.
HNGOY32	7759	954991	1 - 739	15 - 753		AA601697.
HNGOP63	7760	973415	1 - 760	15 - 774		AC005343.
HNGOP40	7761	860182	1 - 719	15 - 733		AA137024.
HNGOO88	7762	860179	1 - 351	15 - 365		T70563.
HNGON56	7763	974038	1 - 724	15 - 738		
HNGON24	7764	860183	1 - 707	15 - 721		AA573222.
HNGOK04	7765	972752	1 - 598	15 - 612		AL023882.
HNGOF70	7766	860195	1 - 301	15 - 315		AA236911, AA417620, AA824640, AC007216, U95742, AC002045, AC002039, U91326, AF001549, and AC002544.
HNGNY72	7767	860198	1 - 528	15 - 542		AA593483, AA585098, AA585325, AA170832, R29657, T18597, AA585101, R45895, D53161, R28735, R29445, D57491, AA585155, C15406, AA585439, D59751, Z32822, AA585378, Z32887, AI557262, R28892, AI557864, AI541356, C15069, AA585329, AI526140, AI541365, AI525500, AI557740, R28965, D61185, Z28355, D59436, AI526184, R29218, D60844, D60765, D54897, AI526078, AA585476, AI557731, AI525316, AI557763, R28967, R28895, AI541205, AI541535, AI546971, C16315, AI525556, AA283326, AI541383, AI541517, AI547250, AI546875, AI526016, D61254, AI557727, AI557734, AI546999, D53472, AA585356, AI557718, AI557787, C16293, D53447, AI541013, C16294, C15120, D52835, AI547039, D55233, AI525306, D78224, C16300, AI541374, C16292, AI557084, AI541346, AI546945, AI525431, AI526191, AI557807, C16300, AI547196, C16305, C15762, AI557408, AI557758, AI541523, Z30131, AI557809, R29179, AI525339, AI541034, AI526194, C15737, AI540903, AI546921, AI541307, AI526112, AI546996, AI540967, AA585453, AI546891, D60730, AI547006, AI557602, Z33559, AI540974, C16296, AI547202, AI525320, AI557279, D57186, AA585430, AI557808, R29177, AI541321, AI526024,

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HNGNY16	7768	806017	1 - 628	15 - 642	N53256, and N48058.
HNGNY02	7769	918626	1 - 546	15 - 560	AA593459, and AA601626.
HNGNX66	7770	974035	1 - 655	15 - 669	
HNGNU85	7771	974037	1 - 688	15 - 702	
HNGNS91	7772	973432	1 - 560	15 - 574	
HNGNN81	7773	974124	1 - 511	15 - 525	
HNGNN01	7774	915226	1 - 654	15 - 668	AA776772, AI754955, AI830390, AA491814, AI053672, AW022379, AW168342, AI245679, AA181773, AA634227, AI273185, AI281881, AW088058, AA441788, AA457592, AI284640, W79504, T08638, AI471481, AI334443, AW303196, AW274349, F36273, T05101, AI564185, AW301350, AI358343, AA640772, AI674873, AA132914, AI291268, AI291124, AI273193, AA371533, AI446464, AA177061, AI801591, AI076616, AA284179, AI334435, AW407578, AA338486, AA649642, AI268599, AI707788, AW300625, AA364224, AW406447, C06303, AA581903, AA669251, AI432270, AI624698, AI061227, AL120502, AW419262, AA514737, AA810370, AA831375, H91305, AI888008, AA665021, AI281903, AI143242, AA349366, AI732120, AI859251, AI352078, N25296, AA744031, AI801701, AI287451, AA598586, AI287651, AF150152, AW151896, AA569387, AI817516, AA134367, AI364020, AL046898, T07451, AA368936, AW162489, AI653905, AW270270, AW073470, AA451612, AI471543, AA828856, AI561255, AI640702, H13757, AA482681, AI537030, AI133164, AA827023, AA862173, AA713891, AA528516, AI435544, AI754253, AA578391, F19012, AI299050,

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HNGNJ46	7775	860212	1 - 475	15 - 489	AA053962, AI283611, AI283583, AI627209, AI144026, AI952755, AI109758, AL022163, AL121653, AC004875, AD000091, AC005969, AC010170, AC004792, AC005412, and AC002564.
HNGNI78	7776	860216	1 - 366	15 - 380	AA126935, AA807689, T40495, T50099, H65096, R07589, T50151, AI801031, R93174, W90100, AC004259, AP000703, AC004600, AC008124, AC006509, AC004815, AF050154, AC005043, AC005049, AC005274, AC008085, AL109952, AC007193, AC005520, D28126, AC005081, AB015355, AC007899, AC002044, AC005015, AC006126, AP000704, AL034418, AC004551, AC005300, AL050318, AC004973, AC003029, AC007314, AC006026, AF069489, L44140,

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HNGND75	7777	974968	1 - 672	15 - 686	AC007786.
HNGND01	7778	915294	1 - 762	15 - 776	AI022226, AI129665, AA127628, AI130001, AI301039, AI141043, AL035865, AW270721, AW005796, AA534994, AI478710, AA404247, AI683640, AI935858, AW264511, AA121530, AA668748, AA557266, AW078692, AI955181, AI628202, AI086050, AW090542, AW166084, AI986269, AI983208, AI377124, AI683889, AA541435, AI081338, AA725813, AW070580, AA179522, AA932109, AI620840, AA810479, AW439451, AW068961, AI033877, W49540, AA133498, AW189306, AW088358, AA601021, AW090306, AA872331, AI920839, AI635641, AI214106, W86782, AA551354, AI610664, N51942, AA211133, AA126908, AA535619, AI081495, AI335620, AI884357, AA115738, AI297995, AI911637, W47028, N20983, AI887390, W73516, AA890394, W72695, AI680273, AA620718, AA578586, AI276552, AI190252, AI352166, AI476083, AL035750, AW305374, AW162495, AI469122, AW081889, AI079436, AA774108, AI342284, AI473922, AI973240, AI039051, AA084585, AI826973, AA826611, AA702028, W49770, AA598477, AI049540, AA180213, AI690720, D57533, AI001812, W73499, AI032492, AL047379, AA398664, AI074393, AW069375, AA706382, AI263477, AW243728, AI168559, AI753147, AW305310, AI288970, AI052705, D54869, AW264770, W77810, AI493416, AW268388, AI051099, AA598495, AA514907, AI287981, R66430, AA747253, AW364206, AI933724, AI493365, AI219361, AI360733, AW020272, AA676604, AI609237, AI824623, AW022871, W05044, AW002671, AW087153, AI928872, D53483, AI174366, AA730111, AI187825, AI041829, AA853124, AW173457, AA501361, AW130490, AI273536, AW089817, AI859433, AI818678, AI055827, T63494, T10144, AW132076, AI127320, AI979199, AA622833, AI583649, AI754770, AA809076, AI753765, AI096355, AA703919, AI753332, AI299238, AA602670, AA579625, T67471, AW022545, AI492509, AI057100, AI583931, AL047743, AA533746, AA083367, AA778087, AI190949, AW262610, N63572, AW337252, AI190389, AW339759, AI041973, AI678856, AI140137, AI146987, AI811361, AI927773, N33083, AI890665, AA232549, AA788865, AW273394, AA568739, AI302621, AA770664, AW150725, AW273028, AJ243228, AI937304, AI373008, AI423914, AI264872, AI251821, AA039947, AI866531, AI250692, N80040, AI028651, AA738286, AI702397, AI202482, AI783520, AA875881, AI263698, AA598774, AI338061, W32221, AA480150, AI470708, AI628500, AA115683, AI929829, AA070897, AW069880, C75038, AI274672, AA199627, AI084814, AA367443, W73373, AA134177, AI446560, W92997, AI364426, AA910384, AW385410, N34478, W48673, AA084513, AA630578, AA854828, AW197913, AA812131, T16010, AI561055, AI085001, AL049610, D14812, AB025049, AF100616, AF070664, AF131847, AL137697, AF161546, AF100615, AR051470, AR051511, R52817, R62932, H08211, N74682, AA082060, AA232343, AA600929, AA580303, AA662255, AA731060, AA828583, AA206628,

HNGNA49	7779	974907	1 - 606	15 - 620	AA653675, Z21558, AA904436, AA773870, AI583553, and AI610630. AW378532, AA837655, AW360855, AA704393, AA576336, AI810682, F05324, AA527209, W03286, AA468022, AA487775, AI734144, AI254913, AA837035, AW084745, AW084739, AI800168, AA569183, D34614, AL031055, AC004881, AR060138, AF129108, AL022236, AC004253, AP000502, AC004408, AF053356, AC007899, AC005409, AL008718, AL034548, AP001053, AL035397, AC007193, AC005015, AL031053, L09706, AF019413, AC003665, AJ229042, AC006468, AC004084, AC004019, AP001069, AC006252, AC004686, Z94056, AL031133, AC006130, AL021918, Z95114, AL022146, AP000348, AP000347, AC005280, AC004962, AC000052, AC005725, AL133321, AC002049, AP000170, AP000055, AP000123, AL035067, AC002472, AL024507, AL031680, AL135744, AL049540, AC004975, AC002301, AC002395, AC005900, AL049869, AL022318, AL031595, AL035695, AL031311, AC009247, AC007151, AC002543, L35667, AF135187, U73024, AC005612, AL031848, AL022238, AC000070, AC004776, U85195, AE000658, AP000210, AP000132, AL035587, AL034554, AC004072, AI011930, and AP000466.
HNGMY91	7780	974056	1 - 735	15 - 749	AI246796, AI110760, AW080811, AI380617, AA449669, AA715506, AI567391, AA742818, W45215, AI124798, AA565911, AC006449, AC005695, U47924, AC006026, AC009516, AP000556, AF030453, AL049780, AP000552, AC002425, AC005088, AC005089, AC002470, AC007707, AC005086, AC005071, AL133445, AC003684, AC005274, Z93023, AP000688, AC016830, AL096791, AC007461, AC016027, AL050332, AC005049, AC005225, AC004859, AC005081, AC005015, D87675, AC004815, Z83844, AC004854, AC007216, AF109907, AL049776, U91323, AC004475, AC007666, AC004531, AC004983, AL031587, AC007421, AL009179, AP000350, AL049872, AC002472, AC002477, AL022326, U95742, AC006312, AL049539, AP000502, AC004491, AC007263, Z95115, AC007664, AC004797, Z98884, AF134726, AC005837, AL022336, AC007358, AC004477, U80017, AC004967, AC002375, AC006011, U82828, AC005057, AC007686, AL009181, AP000248, AC005971, AC002544, AC005332, AC005881, AL022320, AP000045, AC007371, AL031282, AC006006, AC007226, AC002316, AP000049, AC006014, AC005067, AL096712, AF001549, AC006571, AL035681, AP000557, AC005037, AP000692, Z99716, AL121658, Z84480, AC004584, AC003109, AC004858, AP000311, AL096701, AP000689, AB023049, AC003982, AD000092, AC006511, AC004106, U62293, AC002546, AC004520, Z93930, AC005237, AL031662, AL078638, Z84469, AC005839, AL035460, AC007637, AC007308, U95739, AL031595, AC006285, AC005261, AC007774, AC005899, AC004821, AB003151, AL021578, AL034549, AC003108, AC006459, AC005599, AL031311, AC006455, AL121652, AL022316, AC005823, AC005535, AC005562, AL109627, AC005884, AP000212, AP000134, AL035450, Z83840, AP000252, AC000353, AC006251, U91326, AP000300, AC004605, Z98304, AF111168, AC005778, AP001053, AC005488, AC005841, Z95114, AC007283, AJ010770, AC004878, AL022322, AC002350, AL133448, AC004148, AL121578, AC002550, AC005519, AF196779, AC005578, AL049869,

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HNGMW65	7781	950173	1 - 405	15 - 419	AA577906, AW406447, AL138265, AA587256, AW406755, AL358229, F25135, AL365988, AL061334, AL963720, AL613280, AA623002, AL446638, AW276827, AA630925, AA482711, AL350211, AL046409, AL619997, AA559290, AW193265, AL610159, AA649642, AA484696, AL311557, AL341664, AL688846, AL431303, AL284640, AA491814, AL344844, AA610491, AA569284, AW193432, AA634227, AL119691, AL120269, F29989, AL049634, AL281881, AL036382, AL345654, AL375710, AA581903, AL090334, AW302013, AL610840, AL048925, AW438643, AA551503, AL298710, AL669453, AA177061, AA719805, AL571512, AA984708, AW439558, AW189303, AL471481, AW270270, AL754658, AL270117, AL434695, AA525190, AL446464, AL053672, AA630030, AL289067, AA350859, AW148792, AL148277, AW303196, AA654771, AW274349, AL744827, AA810318, AL814735, AA569471, AW088846, AL143242, AA493471, AL305547, AL249997, AA394271, AL499938, AW304584, AL633390, AA664535, AL561255, F36273, AW301350, AA826303, AA806796, AW162489, AA747276, AL379719, AL262909, AW276435, AL744995, AL334443, AL801591, AL041368, H88666, AW276817, AL471543, AL085719, AA829223, AL537955, AW082108, AL038705, AW406162, AA568778, AL042420, AL286356, AL368256, AA682912, AA977743, AW408717, AL345681, AL345675, AL279165, AL634384, AA502963, AA641103, AL287651, AL133164, AA491831, AL732120, AW089322, AA572713, AL357551, AW339568, AL888008, AA468022, AA134367, AW338419, AA515905, AA491762, AA364224, AL860020, AW303876, AW238278, AL273968, AL281697, AL037683, T40617, AA644538, AL064864, U62293, AF015148, AF015149, AC005295, AL132712, AL008635, AD000684, AF038458, AD000092, AL031650, AC004019, Z69917, AC005914, AC002072, AC004596, AL023553, AC007564, AL035659, AL031584, AC009247, AC005841, AC004894, AL049631, AL035361, AC005015, AP000356, AC007666, AF196779, AC002395, AP000248, AL021940, AC005829, Z93241, AC006026, AP000354, AC002470, AC007308, AL031286, AL117352, AC005387, AC004263, AC007541, AC004821, AC004895, AC004849, AC008372, AL031255, AL031662, AC003007, AC006274, AC004848, AP000692, AL080243, AC005253, AC005907, AF045555, AC006120, AC005003, AC005410, AC005081, Z82244, AL049759, AL121578, AC007065, AC005876, AL132800, U73479, D87675, AL080242, AC006571, AC007151, AC006511, AC002377, AC006195, AL034423, U95742, AL121934, AL121748, AC002059, AF039907, AC002430, AL031848, AC004857, AL049712, AL109802, AC004534, AC006312, AC005264, AL022323, AL034547, AC008079, AC006128, AL023803,

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HNGMT40	7782	930430	1 - 601	15 - 615	AI620554, AI453794, and AI040063.
HNGMM11	7783	966099	1 - 456	15 - 470	AA256983, AF057159, AC009247, Z57759, Z56080, Z64954, and Z56081.
HNGML12	7784	934389	1 - 629	15 - 643	AI380529, AW293019, AA812027, N34824, AI384128, and AI919525.
HNGMF02	7785	955660	1 - 1026	15 - 1040	AI668778, AW449078, AI808063, AA652238, AI810731, AI819769, N20962, AA854352, AI868698, AA015950, AI146603, AA577040, AI768021, H20848, AI685171, H92976, R54801, AI424950, R85513, R73898, AI566765, AW055158, R93702, AW271967, AI885110, AA702855, H98871, AI251907, R37618, N58807, AI200592, AA422051, AI640769, AI825895, AI685990, N29373, AI183275, and AF131764.
HNGME04	7786	927020	1 - 612	15 - 626	H53494, AI240767, and AL121998.
HNGMD92	7787	790887	1 - 575	15 - 589	T40288.
HNGMD48	7788	974358	1 - 563	15 - 577	
HNGMC01	7789	915310	1 - 1007	15 - 1021	AI146451, AA022541, and AA022540.
HNGLY12	7790	968919	1 - 479	15 - 493	AI024747.
HNGLY08	7791	948825	1 - 834	15 - 848	D81111, C14227, D51799, C06015, T11417, D80253, D59859, F13647, D80168, D59889, D51423, D80166, D58283, D59619, D80210, D80240, D80366, D80212, D80064, D80195, D80949, D81030, D80188, T03269, D80219, D80391, D80043, D80227, D51079, D57483, D80196, D80269, D80038, D59927, D80193, D80024, D59275, D80022, C14429, D80045, D59610,

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HNGLS90	7792	787446	1 - 604	15 - 618	W93091, AW207524, R01213, A1016019, A1242115, and AW136066.
HNGLR54	7793	972812	1 - 641	15 - 655	
HNGLO21	7794	974067	1 - 773	15 - 787	D80133, C03092, H67854, Z21582, C14298, D59619, D80210, D80240, D80219, D80064, C14014, C15076, D81111, D51423, F13647, D80439, D81030, D59503, D80157, D59502, D80166, D80212, D80949, D80168, D59653, D51053, D50995, D51079, D80188, D59373, D58246, AA305409, D51799, C14389, A1535665, and D59551.
HNGLL07	7795	952236	1 - 597	15 - 611	AA128161.
HNGLK36	7796	974584	1 - 650	15 - 664	
HNGKY10	7797	963459	1 - 150	15 - 164	A1587470.
HNGKS34	7798	974368	1 - 426	15 - 440	AP000219, and AJ011931.
HNGKQ80	7799	860306	1 - 703	15 - 717	AA457656.

HNGKO32	7800	860307	1 - 807	15 - 821	<p> W91887, W01167, A1613280, A1350211, A1341664, AA365347, AA584749, A1282907, A1344844, AW074398, AW193265, A1284640, A1061334, A1688846, AW193432, A1431303, A1471481, A1345654, AW276827, A1963720, A1046409, AW264973, A1879000, AA535661, A1205126, A1610159, AA719805, A1041412, AW338869, F19258, A1041368, A1814735, AA659083, A1015912, A1537185, A1340453, A1379719, AA558697, A1289067, F35659, AA654627, AA515435, F18974, N23649, F36273, AA350859, A1312149, A1619997, AW261871, AA366035, AA551509, AA228329, A1375710, F31204, AA176924, A1914706, AW265197, A1003172, A1536555, AA658235, AW439558, A1565582, AA626747, A1270343, AW439839, AA650244, R93081, AA580662, W60516, AA515128, N71724, AW083402, AA578141, AW438643, A1053672, AA605274, AW419262, AW339568, A1493634, F29989, A1240891, AW172727, AA593060, A1334443, F37286, AA362700, AA244329, A1754658, AA308806, AA338431, A1110770, AA340003, A1276164, AA317170, A1349874, A1557323, A1358229, A1435544, H16048, AW406755, AA077817, A1365988, AW022046, A1003743, AA310158, A1270117, A1742771, AW339687, A1634384, A1635272, AW264959, AW275674, AA553385, A1287284, AA837755, A1048925, AA318652, F26152, AW083364, AA843450, AA332991, N53150, A1079935, AA826032, AF150152, A1037914, AA021133, F37223, F31799, A1471543, F31796, A1499094, A1859742, AA559290, AW069807, AA451612, Z98473, AW303876, A1830390, AA584458, A1216799, AW269639, AA648110, A1951889, AA507547, A1744188, A1872421, A1565245, A1885167, A1446464, A138265, AW104748, AA557879, AA299601, AA358897, A1049634, AA292574, AA095511, H64560, A1281881, AA626678, AW088058, A1119984, T40338, H92005, AA714595, AA428414, A1801600, A1679379, AA342958, R44592, A1358343, A1624698, A1890928, A1679888, F37169, F24284, A1890570, AA829106, AA743956, AA342901, A1118947, AA652057, AA434484, AA919037, A1184226, AA649642, AA947547, AA641989, AA733208, F28576, A1193007, W56200, A1608626, A1561335, AW419118, A1569086, A1886176, N43757, AA057056, A1612032, AW406447, AA218645, AA557325, A1281903, A1287964, A1064864, T40617, AW337985, AA515051, A1287651, A1043721, A1039958, A1339850, A1249997, AW023672, R91994, AA663306, A1305547, AW167267, A1148245, T07451, A1079910, A1266133, AW276435, AA501722, A1962050, W25284, AA664535, AA450199, A1567674, AW130799, A1474713, A1038785, A1445436, A1041690, A1133164, A1890052, AC004603, L13709, AC008134, L13713, AJ006996, X55926, S70697, U02058, AC007437, AC006999, AC006002, L13714, AC007298, AC007681, U18394, AC005532, AC004006, AC006374, AC002289, U18393, U57006, X54180, U02063, A1022329, U57007, A1031732, AC010169, AC003075, AC004773, AC006275, Z98051, AC005754, AC007656, AC004833, AF064863, AC009227, AC005293, X55931, A1096776, A1022302, A1031257, AC002377, S70694, AC003109, AC005533, A1031965, A1078593, AC005037, A1132985, AC006925, AR042836, U02531, U18390, AC007227, AC002094, AC005553, AC007919, AF015150, AF015151, S70707, AF015149, AF042090, X55928, U57009, U18392, M87918, L81648, U02532, </p>
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HNGKM74	7801	942758	1 - 975	15 - 989	AI344276, and AF015416.
HNGKL24	7802	974360	1 - 526	15 - 540	
HNGKJ02	7803	918622	1 - 717	15 - 731	AI580150, AI803419, AI379547, AA128109, and AI382855.
HNGKH07	7804	952210	1 - 234	15 - 248	AI468993.
HNGKG03	7805	922036	1 - 420	15 - 434	AA229992.
HNGKD49	7806	974364	1 - 536	15 - 550	AW403476, and W25389.
HNGKC69	7807	834922	1 - 759	15 - 773	
HNGKC21	7808	974581	1 - 345	15 - 359	
HNGKC06	7809	934309	1 - 696	15 - 710	AI125523, AW172301, AL043093, AI141715, AI634437, AI867768, AA927584, AA724084, AW016180, and AJ239329.
HNGKA11	7810	966117	1 - 462	15 - 476	AW014267, and AA085402.
HNGJV82	7811	778921	1 - 426	15 - 440	AW188181, AA224032, AA249197, and AC005940.
HNGJR05	7812	860357	1 - 455	15 - 469	AA458810, and AA781966.

HNGJQ96	7813	796414	1 - 382	15 - 396	Z94056.
HNGJQ36	7814	708121	1 - 299	15 - 313	AL037910, AI053445, AW082117, AA878149, AA603323, AA728978, AI347810, AA484143, AA555229, AI284640, AI673731, AI282661, AW238016, AA714467, AI818770, AI753267, AA524832, AI036283, AW275971, AC004231, AL008582, AF129756, AC004821, AC005375, AL096791, AL021391, AI049872, Z85987, AL022326, AC005519, AC002543, AC005632, AL096701, AC005899, AB023049, AC006211, AC005081, AC000134, AC005668, AC005768, AC006449, Z82180, AC004859, AC004814, AC005591, AC002470, AC004448, Z97054, AL034421, AL049569, AL031281, AC006285, AC005971, AC009516, AC003029, AC004257, AL031257, AL020993, AL022316, AL009179, AC006312, AC002544, AC005225, AC005730, AC004799, AC005726, L78810, AL078581, AL121652, Z83844, AC005041, AC004765, AC005212, AC004812, AL031666, AC020663, AC002350, U91326, Z94802, AC006011, AC000025, AC005154, AC004890, AL031680, AC004491, AD000092, AC009247, Z83840, AF196779, AL035659, Z99716, AC005678, AC004887, AC006071, AP000111, AP000043, AL121655, AC005164, AC002126, AF190465, AL049576, AL117330, AF045533, AC003007, AC005781, AL031311, AC000026, AC005660, AC006120, L78833, AC002418, AF051934, AC005874, AF134471, AC005702, L41140, AC008012, AF111169, AC006468, AL049869, AL109865, AC005291, AC006130, AC003101, AC004000, AL023882, AC005529, AP000512, D87675, AC012384, AC006480, D83989, AC004638, AL021154, AL121603, AL078639, AC004386, AL133448, AP000558, AC002300, AC004098, AC005255, AC007384, AC002059, AC005695, Z95114, AC005288, AC002365, AC004263, AC007066, AL035072, AL117354, AC007731, AJ229042, AC005261, AC006239, AF196969, AC006263, Z84572, AC005500, AL008715, AL133163, AC002347, AL049776, AC004472, AF126531, AC005914, AL049780, AC004526, Z98742, Z84480, AL008721, AL133245, AC005004, AC005484, AC008372, AC002091, AC002115, AC007216, AC007510, AF196970, AF053356, AC002316, AC002565, AC004477, AC006006, AC004955, AL133399, AP000065, U91321, AC003042, AL135744, AC008079, AC006241, AC007207, AC002563, AC007773, U95740, AL117344, AL109653, AC004972, AC005531, AC004687, AB023051, AC002395, AC007193, U91323, A39972, AC012627, AC009248, AP000557, Z68162, Z85986, AL035409, AL023553, AC005829, AL008730, AC004895, AC003688, AC003043, AC004685, Z84476, U62317, AC005527, AC004774, AL008710, AC007919, AP000356, AC005772, AL033525, AC005799, AC007298, AC002310, AP000504, AL021395, AP000090, and AC007546.
HNGJQ08	7815	959511	1 - 110	15 - 124	R83852, AC005326, and AC004924.
HNGJL47	7816	720363	1 - 641	15 - 655	AI346735, AI304808, AA916741, AI273323, AI367917, AA190879, AA488481, AI273765, AA190847, AA488351, AI268909, AI263971, AW016733, and R45594.
HNGJK64	7817	746615	1 - 271	15 - 285	AC009247.
HNGJK63	7818	839947	1 - 373	15 - 387	AA861844, H68343, AI207424, AC002300, Z47066, AC005755, AC004913, AC004081, Z98051, AC002470, AC004953, AL133246, AC005730, AC005332, Z82196, AC005244, AL078639,

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HNGJK40	7819	711219	1 - 368	15 - 382	
HNGJI40	7820	711211	1 - 371	15 - 385	
HNGJI04	7821	615285	1 - 325	15 - 339	AA758934, AI334443, AI053672, AI754955, F36273, AI284640, AW238278, AI281881, H40410, AI801591, AI672135, AI133164, AI587583, AI587565, AI499503, AI355206, AL048142, AW021583, AA502155, AL041706, AI192631, AW270270, AA873573, AI919029, AA872067, Z78385, W79504, AW008317, AW073470, AI148277, AI144330, AI860020, AA573131, AI434311, AF029308, AL035494, AL031311, Z83844, AC002429, AL031427, Z86061, AC002430, AC005529, AC007384, Z69917, Z84480, AP000500, AC003109, AC005046, U91326, AC003007, AC005412, AL049872, AC004491, AC002470, AC005632, AL109623, AC005244, AC009069, AC005324, AC004895, AC003664, AL020993, AF124523, AC002301, AC005037, AL023553, AC005519, AC007488, AP000962, AC005015, AF091512, AJ003147, AC006211, AL022163, AC004257, AC006539, AL031728, AC005921, AC005699, AC005387, AC005019, AI246003, AC006511, AC002045, AL022322, AL031770, AC005250, AL121658, AC009516, AL133448, AC006312, AL031650, AC004765, AC007878, AC005740, AC001231, AC007227, AC005516, AC005393, AC002115, AL121825, AC003101, AC004913, AC004067, AF134726, AL122020, AC006050, AC004638, AC007564, AC006017, AF200465, AC002312, AC003085, AC008372, AC020663, AC006480, AC004381, AC004825, AC007363, AC005527, AC004531, Z83840, AC005231, AP000553, AC002544, AC008064, AP000090, AC000025, Z54246, Z85987, AC002549, AC008101, AC004949, Z84484, AC004453, AL121748, AC004990, AJ011930, AC007731, AL034418, AC005500, AL121603, AP000114, AL049780, AB001523, AL033392, AC002425, AL139054, AC007510, AC004901, U95742, AC004019, AD000092, AL109967, AC009399, AL034343, AF023268, AC005988, D87675, AC005696, AC007130, AC002094, AC000134, AC005913, AC003982, AF129756, AL024507, AC002126, AC006079, AC006006, AC002395, AC005839, AC008079, AC005409, AL034402, AC003009, AC005406, AL031673, AC005619, AC010205, Z98200, AC006057, AL021808, AP000692, AL022313, AC004152, AC007216, AC005211, AF123462, U47924, AC007298, AC003003, AF067844, AL132994, AF146367, AF196971, AC004534, AL035458, AP000402, AL078477, AC005829, AL021546, U91321, AP000557, AC005358, AL031281, AC006479, AC004751, AC007225, AL020995, AC006241, AC006128, AC009288, AL049636, AC004963, Z93930, AL022332, AF165926, AL022476, AL021937, AC002394, AL049776, U63721, AL022328, AC004890, AL035684, AC005799, Z95889, AC007151, AL024498, AC000353, AL133485, AC007193, AC005768, AC004997, AL031319, AL035659, AF049895, AL023575, AC005065, AC010072, AC005520,

HNGJG75 HNGJG35	7822	942946	1 - 1020	15 - 1034	AC005585, AC008115, AC008055, AC005360, AC007537, and AC006013. AI580652, AA701121, AA488395, F34795, AF157623, AC005305, AC006479, AC000003, AC004905, AL022323, AC006011, AC004817, U85195, AC004878, AE000658, AL096701, AC005697, AC004935, AL049832, AL031984, AL031276, AF192789, AC006312, AC005940, AC004675, AL031277, D88270, L78833, AF109907, AC005379, AL139054, AC005138, Z97198, Z98200, AL109758, AL009183, AC005244, AL121603, AL049776, AD000090, AC003963, AC006130, AC004499, AC002115, U34879, L24094, AL022145, AF200465, AC006111, AC004098, AC004819, AC007073, AP001172, AL049757, AP000211, AC005722, AC005288, AP000348, AC007666, AL034420, AC001228, AL023879, AC002564, AC005567, AC004858, AC005911, AL031651, AC005071, L14752, AC005703, AL023553, AF088219, AC005667, AC002472, AL049867, AC007630, AF126403, AL031447, and AC000052. AA789303, AI810153, and AI914400.
	7823	422897	1 - 379	15 - 393	
HNGJE38 HNGJE23	7824	495689	1 - 616	15 - 630	AW303196, AI281881, AW301350, AI284640, AI567076, AW167372, AL042853, AI434695, AL043719, AW274349, AW407578, AA576336, AL119691, AA812139, AW193265, AI350211, AA584201, AA515829, AA127353, AA483771, AI431303, AA502103, AI345654, AI312309, AA716348, AA074130, AI929531, AA577906, AI937850, AA469451, AA405453, AW238278, F36273, AW028392, F18320, AW029038, AI754955, AW167799, AA947547, N75391, AL046409, AI151261, AI688846, AW276701, AW079135, AI254779, AW088846, AI919029, AA639250, AI061143, AI144101, AW021583, AW193432, AA806796, AI783494, AA584752, AI446464, AA640772, R98967, H90844, AW072923, AA649642, AL121235, AW276435, AI339850, AI962050, AA525824, AI696962, AA599920, AI564185, AI568678, AW261871, AI798489, AA490183, AW247819, AI245679, AI281697, AW302013, AI358571, AA502866, AA826303, AI061334, AA621936, AA631507, AA219115, F17891, AI262909, F36306, AL044940, AI085719, AW020992, AI754658, AA713891, AW302450, AW276817, AA578861, AA552856, AA664015, AI559705, AW408047, AA639248, AA552843, AI341548, F17555, H94870, AW089322, AA828042, M86143, AI918421, N64279, AA213741, AA548511, AA594145, AA347368, AA372478, AA502720, AA584176, AA661921, AI334435, AA569471, AI903462, AW327868, AW405021, AA715609, AA728990, AA908357, AI345418, AC008040, X54181, D83989, X54178, X55926, U57009, AP000493, X55923, U18394, X55927, U18391, U18398, AL121603, U18395, X54176, U18393, U18387, I51997, M87919, X54180, Z22650, AC005839, U18392, U18399, U57005, X55925, U57006, U67825, AL078604, X55931, AB001523, AF015160, X55922, AL031587, U57008, X54179, X55924, U67832, AC002527, U18390, AL049776, AF015148, AF090940, U67229, X55930, AL035448, AC005251, AL034451, AL021977, AL031662, X55932, AC006432, AC003950, AC004019, AL031311, U67221, U67211, AC008372, AF006501, AL050306, M37547, AF015156, AL023494, AC007114, AC007193, AL031295, AF117829, U67826, U91326, AC004592, AC007216, AC004522, AJ003147, Z79422, AC004972, AC004884,
	7825	600366	1 - 1058	15 - 1072	

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HNGJE08	7826	973790	1 - 534	15 - 548	AL135677, AL109984, AC004063, AL022328, and AC006155.
HNGJE01	7827	973797	1 - 517	15 - 531	
HNGJC68	7828	888447	1 - 334	15 - 348	
HNGJC29	7829	695660	1 - 473	15 - 487	
					W57586, AW194627, W93807, AI079554, AW243050, AA279011, AI281191, AI143216, AA983569, AW294001, AI392855, AA557282, N49211, AI765833, AI335326, AA292772, AA705078, AI338729, AI241107, AA476900, AA251779, AI963754, AI087153, AI636442, AI857402, AI949689, AI763030, AI884606, AA704804, AA731007, AI376580, AA921827, AI032953, AI823966, AI915274, AA767672, AA522479, AI968828, AI797706, Z74023, AF131220, and AF172244.
HNGJB49	7830	723004	1 - 699	15 - 713	N63664, N59771, N91071, AI084981, N78232, R00854, and R01507.
HNGJA75	7831	888461	1 - 407	15 - 421	AC004908, AL031259, and AC004842.
HNGIX71	7832	760398	1 - 455	15 - 469	R94022, and T95558.
HNGIW45	7833	717698	1 - 360	15 - 374	AI133083, AW081303, AI798493, AA128511, AW410354, AL047349, AA630245, AA486568, AA552202, AW020088, AA604831, AW191886, AI915293, AW022934, AW021161, AL049872, Z82178, AC003098, AC006538, AC004881, AC004491, AF207550, AL022302, AC005756, AC002470, AC007193, AC006160, AC005368, AC004757, AC005619, AL021707, Z84480, AC002544, U62293, AL031728, AL049569, AC007686, AC002398, AF053356, AC005821,

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HNGIS92	7834	792748	1 - 528	15 - 542	R19806, and AC004169.
HNGIS70	7835	757216	1 - 682	15 - 696	H96207, and AL572367.
HNGIS02	7836	920221	1 - 529	15 - 543	AL565849, and AL375659.
HNGIR10	7837	964715	1 - 487	15 - 501	AW005230, AL598235, AL918190, AW004702, AL655877, AW264973, AA640272, AW088202, N34704, N71724, AA340960, AA133986, AF177861, AA344959, AL138421, AJ003147, AC020663, AC007228, AC004890, AF091512, AC005261, AC004821, AF134726, AL050097, AC006478, AP001068, AP001067, AJ011930, AL035658, AB011129, AC007488, AL096867, AD000092, AC006059, AC003006, AC006548, AC006213, AC007204, AC007182, AC005387, AC004382, AF001549, AC007011, AF106656, U67213, AL022238, AF030453, AC005519, AL031662, AC006285, AC005088, AC007845, AC002404, AC006277, AC016025, AC005839, AC005666, AP000474, AC005696, L4140, Z99758, AF053356, AC005772, AC006543, AL021918, AJ012197, AC005829, AL109621, Z86090, AC007387, AC006552, AL031685, AC005412, Z54334, AL132992, AC006544, AC006480, AC004783, AL133238, AP000115, AC002306, AC006323, AC006222, AC007666, AC005913, AC000052, AF207550, AL021707, AC006539, AC004019, AC002991, AC004816, AC006116, AL109798, AP000355, AC006538, AC002492, AC008372, Z85997, AC005215, AP000503, AC005694, AL031286, and AC003003.
HNGIQ78	7838	772866	1 - 405	15 - 419	

HNGIQ71	7839	495771	1 - 494	15 - 508			AA458777, AC007387, and AC006544.
HNGIP47	7840	720374	1 - 437	15 - 451			AC007011.
HNGIP27	7841	860515	1 - 590	15 - 604			
HNGIO64	7842	487439	1 - 511	15 - 525			
HNGIOS2	7843	727196	1 - 621	15 - 635			N40971, and AA644354.
HNGIL94	7844	793171	1 - 383	15 - 397			AI826442, R43468, AI919265, AA768079, H48670, AL078474, AL023876, AC006211, AC005215, AC002418, AC004386, U47924, AL050307, AL022326, Z69709, AB023048, AC004650, AC007537, AL031255, AC005940, AP000150, AL034379, AC006273, AC004526, Z95115, AC005280, AP000009, AC004765, L05367, AC005480, AL031589, AC007546, AL133245, AL121655, U91323, AL049843, AC006064, AC007540, Z84469, AC002351, AC005694, AC007030, Z82178, Z93023, AL009179, AL035072, AL008582, AC007225, AC005399, AL021155, AL031680, AC004673, AC004812, AL109623, AL031587, AC007066, AL022318, AL109865, AC004019, AC005914, AL035398, AC004897, AC005529, AL034420, AC007421, AC002126, AC006312, AC006365, AL049869, AC004859, U62317, AL122020, AL049759, and AL096703.
HNGIL84	7845	781970	1 - 959	15 - 973			W81663, AI375213, W81222, and AF086461.
HNGIL82	7846	812699	1 - 355	15 - 369			AI755214, AI754567, AI754170, AI348597, AI754105, AW069412, AW069227, AA503298, AI634187, AA833875, AA833896, AI701950, AI701942, AI613389, AI133083, AA768340, AW075132, AA192293, AI249688, AL037927, AI362552, AA600202, AI469599, AI446474, AI583142, AI590458, AI457313, AW419389, T47138, AA714011, AA706495, AI004591, AW304580, AW190484, AI267356, AI251429, AA644090, AI569982, AL079734, AW161016, AL036070, AI038304, AI254779, AW089016, AI653636, AI536834, AA654781, AA568314, AW192599, AI569100, AI053786, AI570943, AI590499, AA297776, AI921744, AW105463, AW275432, AW023672, AW021154, AA559241, AI267450, AA779783, AA524616, AA507282, AI635609, AI566408, AI371208, AA299589, AI565126, AI610737, AA405726, AA262752, AA809546, AI732720, AA492105, AA832145, AI791659, AI078409, AW105729, AI570805, AA218720, AA864426, AA526625, AA526326, AI912401, AW151247, AA456924, AA176605, AA579152, AA657374, AA487226, AI431513, AL040054, AI745335, AC004655, AC005535, AP000048, Z98036, AC007292, AC004216, AC005839, AF111168, AC007792, AC004517, AC004472, AC005907, AL031447, AB015355, AL122020, AC004983, AC004034, AL031433, AP000952, AC006111, AC002350, AC007066, AC004865, AC005067, AC005529, AC003963, AL033527, AC005736, AC005218, AC004884, AL031311, AC000353, U85195, AL133448, AP000212, AP000134, AL031685, L44140, AC002480, AL022238, AP000030, AC004009, AC006130, Z93096, AC016025, AC004838, AL031432, AE000658, AC005548, AL035072, AC004686, AC004228, AL031284, AC004650, Z92542, AL022323, AL109628, AL034420, AC005378, U07563, Z97183, AC005696, Z93023, AL133245, AL049776, AC005520, AC005081, Z98950, AC006285, AC005632, AF196969, AC005971, AF207550, AC005606, AC002347,

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HNGIL51	7847	725003	1 - 434	15 - 448	AA883992.
HNGIL22	7848	860525	1 - 383	15 - 397	AA856923, N68820, AA077081, U68061, AL022241, and AC004830.
HNGIJ51	7849	868068	1 - 611	15 - 625	AA845599, and AI079672.
HNGHY44	7850	973977	1 - 437	15 - 451	AI708005, AW078495, AA375579, AA441788, AI886085, T58469, AA528195, AA502103, AA176970, AI460390, AL040115, AA515938, AA604607, R79654, AA199660, AI358513, AA494075, AA578711, AI648440, AA179165, AI653936, AI675590, AA341941, AI373405, AA722049, H96823, AI424064, AW028950, AA583579, AW151762, AI439450, AI061054, AI270656, AI453458, AA197089, AI365618, AA581342, AW080963, AI889539, AL042213, AA583568, AA780528, AA402709, N86047, AA653291, AA297496, AA346861, AI310343, W01078, AI800345, AA161181, AA653327, AI735200, AA838162, AA706845, AA226346, N73203, AA196390, AA487872, H90403, AW022292, AA191389, W95985, N40689, AA382102, AA663086, AA663115, F23263, AA357240, AA652057, AA649642, AA016286, AA491889, L81415, AC005755, AP000345, AC008929, AF157623, AC006084, AC004820, AL031650, AC005863, AF053356, AL035587, AF045555, AL035695, Z83840, AC002064, AC005081, AF039396, AC004549, AF067574, AC005562, Z99496, AC008072, L48038, AC005175,

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HNGHO94	7851	793271	1 - 205	15 - 219	
HNGHM61	7852	576221	1 - 483	15 - 497	
HNGHL46	7853	860541	1 - 517	15 - 531	
HNGHU01	7854	916757	1 - 517	15 - 531	
HNGHG39	7855	860554	1 - 388	15 - 402	
HNGHD68	7856	576315	1 - 493	15 - 507	
HNGGV02	7857	920377	1 - 439	15 - 453	
HNGGT08	7858	959649	1 - 374	15 - 388	
HNGGP91	7859	576251	1 - 457	15 - 471	
HNGGP55	7860	578450	1 - 251	15 - 265	
HNGGL74	7861	765644	1 - 815	15 - 829	
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					AC002554.
					T91220, AA258779, AC009731, and AC004530.
					R73389, R73388, and AC005015.
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HNGGF86	7862	860568	1 - 414	15 - 428	
HNGGB58	7863	738213	1 - 359	15 - 373	R62392.
HNGGB28	7864	703315	1 - 295	15 - 309	AA679811, AI767394, and AP000523.
HNGFX89	7865	506492	1 - 641	15 - 655	C15076, D59467, D59787, D80164, C14389, D59619, D80210, D80240, D80195, D58283, D80391, D51423, D80196, D80219, D51799, D80253, D80227, D80188, D81030, D80022, T03269, D59927, D80166, D81026, D80193, D80212, D59859, D80038, AA305409, D80043, C14331, D59610, D59502, D59275, D57483, D80366, D59889, D80024, D80269, D80064, C14298, D50979, D80241, D50995, D51060, D59695, D80522, AW378532, C75259, D80378, F13647, D51022, C14429, D80134, D80045, C14014, AW178893, AW179328, D80251, AW177440, AA305578, AW178775, AW369651, D80248, AA514186, AW352158, T11417,

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HNGFX75	7866	608695	1 - 1016	15 - 1030	AI061313, AW167154, AI246996, AA135761, AL119838, AI281818, H63092, AA484892, F24745, AA578690, AI270476, AI598003, AA634837, AA728911, AW238121, T05118, AA809546, AA441810, AF139813, AL049776, AC004228, AL121658, Z96074, AC006205, AL031311, AC003025, AC006480, AC004014, U91318, AC002464, AC007537, AC005049, AC005372, AC006430, AL049780, AL049843, AC008101, AP000557, AC006230, U82668, AL122020, AC008115, AP000044, AP000112, AC002132, Y18000, AC006064, AC006449, M87889, AC005387, AC004408, AF129756, AC006511, AL031670, AC002996, AL008726, AC004584, AC005529, AL021393, AF196779, AC007421, AC004686, AL008627, AL021155, AC006538, D87675, Z82203, M59199, AC005829, AL135744, AF050154, AC006597, AC002072, AC002314, AC005682, AC008055, AC005005, AL035697, AC005363, AC008079, AP000134, AP000212, AC000003, AC005620, AC004743, AL049795, AL122023, D84394, AC006013,

HNGFU33	7867	702584	1 - 675	15 - 689	AC006547, AC005747, AC005874, AF134471, AL049832, AL078581, AL139054, AC004491, AC009501, AL031589, AC004144, AC005726, AL133448, U95090, AC005536, AL008718, AC004858, AC005225, AC003101, AC004386, AC005399, AC004551, AP000152, AJ246003, AF070718, Z95331, AC004534, AC007324, AL050318, AC003955, Z83826, AC004967, AC005480, AC005799, AL031281, AC003688, AC005694, AC005955, AC007263, AC004812, AL080243, AC005920, AP000553, AL022163, AC007919, AC005081, AC007227, AP000556, AL096701, AC005722, AL049569, AP000509, AL035086, AL035659, AC005899, AC000134, AL021397, AL022334, AC004849, AC007226, M29929, AB025285, AC000070, AC007774, AC005696, AF111168, AC007160, AC005378, AL031587, AC004975, AC006137, AC004685, AC002287, AC004552, AL049636, Z83822, AL049653, AC004913, AC004655, AC005527, AC006241, AC008122, AL022318, AC007216, AC004472, AC003043, AC004125, AC000063, AL050307, AB001523, U89335, AL117694, AF109907, AL109627, AL022166, AL022313, U95739, AL049643, AC004854, and AC005608.
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HNGFT02	7868	920480	1 - 307	15 - 321	AA716766.
HNGFR06	7869	935821	1 - 510	15 - 524	R61534, AI681105, AW082635, H00958, AI871530, AI986039, and AI378964.
HNGFP92	7870	842276	1 - 609	15 - 623	
HNGFN70	7871	872950	1 - 331	15 - 345	AC005316, and AC005317.
HNGFM17	7872	664280	1 - 623	15 - 637	H66970.
HNGFK34	7873	703419	1 - 296	15 - 310	
HNGFI11	7874	967304	1 - 406	15 - 420	AA226156.
HNGFPH90	7875	789066	1 - 493	15 - 507	AA081717.
HNGFHS8	7876	738240	1 - 515	15 - 529	H63640, T79700, AI657076, AB011135, AC005829, AC005670, AC005332, AC004675, AF088219, and AC007993.
HNGFHH30	7877	823363	1 - 2788	15 - 2802	AI889426, AI433104, AI921744, AA130647, AI732911, W96277, AW408643, AA634991, AI679002, AW089625, AA534064, AA658844, AA650623, AA626632, AA595370, AL134940, AI583532, AA486896, AL040921, AW167330, N70044, AW406447, AA831913, AI457389, AI820992, T57096, AI709211, F32373, AI192631, AI110760, AA825954, AI832865, AA128899, AA584482, AW272294, AA225406, AI890324, AA503298, AA916430, AI560241, AW069227, AI687343, AI635028, AA609826, AA078849, AW190484, AA456924, AA707758, AA608588, AI984168, AA424078, AA665449, AA020873, AL037927, AI371208, AA299589, AI565126, AI610737, AA405726, AI888468, AA773098, AI282253, AW410195, AI370170, AW084445, AW268329, AW023111, AA720582, AI870453, N72678, H53546, AA608612, AA630854, AI634187, AA809546, AA584489, AW083934, AI090377, AI889579, AA021561, AI199816, AW068596, AI572680, AA805869, AA297776, AC004883, AF111169, AL021707, AC006057,

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HNGFG10	7878	968059	1 - 1028	15 - 1042
HNGFE50	7879	941480	1 - 2217	15 - 2231
HNGFE75	7880	486855	1 - 549	15 - 563
HNGFE58	7881	871493	1 - 620	15 - 634
HNGFA23	7882	927579	1 - 236	15 - 250
HNGFA18	7883	666626	1 - 383	15 - 397
				AA025836, AA025837, AA723506, AA457243, and AA457244.
				AC005342.
				AL049594.
				AA148705.
				AA953959.
				AA029118, AA770385, and AA629144.

HNGEY55	7884	888324	1 - 363	15 - 377			
HNGEY38	7885	868073	1 - 538	15 - 552		T25322.	
HNGEX10	7886	860615	1 - 639	15 - 653		AA593968, and AW138070.	
HNGEW38	7887	573234	1 - 799	15 - 813		H22044, AA354647, AL042044, AL008724, AL033538, AB028966, and AL080174.	
HNGEU20	7888	669811	1 - 522	15 - 536		R76032, and R30916.	
HNGET91	7889	789373	1 - 403	15 - 417		R68338, and R31248.	
HNGER86	7890	578910	1 - 250	15 - 264		AA721530, AA376872, AA493731, AA620373, T97368, AA728925, AA719292, AW028089, AA167335, AA086435, AA173071, AL040154, N23840, F00979, AA004654, AA776194, AA330897, W86573, AA554257, AA728963, W81359, T89855, AA206062, AA070740, N23062, AA425744, AA167159, N40815, T72218, AA984222, H86041, AA640252, T53253, T61555, AA526099, AA608570, T47889, R92217, R89784, AL034429, AC005519, AF064865, AL049757, AL034369, Z95152, AC004475, AL135959, AC004031, AC005905, AC005089, AC006333, AL022241, AL132826, AL034376, L77036, AC000352, Y11107, AC004753, Z82176, AC005502, AC005685, AC003963, AC005074, Z82243, M89651, AL031602, AC004775, AC006599, AP000223, AL008637, AP000008, AP000086, AC006959, AC004910, AL034553, AC004917, AC005924, Z98052, AL031276, AL049643, AC006148, AP000704, AP000547, AC004638, AF030453, Z84466, AC004525, AC006001, AC004590, AC003029, AC004820, AC004671, AC004701, AC004768, AL024509, AL035685, U91323, AC005082, AL080243, AC010582, AC005736, and AL049635.	
HNGER73	7891	578909	1 - 312	15 - 326			
HNGER62	7892	578922	1 - 293	15 - 307			
HNGER61	7893	578907	1 - 312	15 - 326		AL117546.	
HNGER50	7894	576479	1 - 304	15 - 318		AA657451, AA744068, AA745459, A1783581, AA872180, AA745393, AA745533, AA024691, AA547979, AA744084, AA603881, AA650175, AW076090, AA083028, AA610432, AA085372, AA429197, AA429020, A1826253, AA631359, AA873176, AA461617, A1580250, AA601218, AA594220, AA502991, AA290878, H60533, A1251591, A1679782, AA486559, AA811208, AA668387, AA601327, AL035659, U08988, AR036572, AC004890, AP000088, AL139054, AL096701, U91328, AL035249, AC002988, AC002072, Z93241, AL023803, AC005971, AC008040, AP001053, AC006276, AC005102, AC004216, Z86090, AL049766, AL022238, AC002073, AC005291, AL034423, AC005280, AC004796, AC002352, AP000140, AC005255, AP000553, AP000557, AC009516, AL121655, AC002477, AL049776, AC004656, AC006312, AC003038, AP000045, AC005763, AC007308, AL121658, AL132985, U80459, D83253, AC009247, A1246003, AL133382, AL031390, AL031685, AC005519, AL022476, AP000694, AL023553, U80017, AL080243, AC004019, AC006441, M89651, AL022326, AC002430, AC005531, AP000228, AL133448, AC003070, AC004905, AC006001, AC000095, AL033524, AC010382, AC007384, AL024498, D84394, AL035587, AC005514, AP000501, AC005391, AC006449, AF207550, AC005666, AC005736, AC007542, Z95116, AC006960, L34079,	

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HNGER38	7895	578908	1 - 286	15 - 300
HNGER26	7896	860623	1 - 394	15 - 408
HNGEO79	7897	951489	1 - 782	15 - 796
				AW403530, C14389, C15076, D59467, D80164, D81026, D59787, D80195, D59502, D81030, D80166, D80022, D59275, D80227, D58283, D80391, D59859, D80193, D59619, D80210, D80240, D59610, D51423, D51799, D80253, D80043, D80038, D80269, D80196, D80212, D50979, D80219, D80188, D59927, C14331, D57483, D80366, D59889, D80241, D50995, D80045, D80251, D51022, D80378, AW177440, AA305409, D80024, C14429, D52291, AW378532, AA305578, D51060, C75259, T03269, D80522, AW178893, C14014, AW179328, T11417, AA514188, D80248, D51250, AW369651, AW352158, D80134, AA514186, D58253, AW178762, C14077, AW178775, D80133, AW177501, AW177511, D80132, AW176467, AW360811, D80268, F13647, C05695, AW352117, C06015, AW377671, AW375405, D80302, AW378540, C14407, AL910186, AW366296, AW360844, AW360817, AW375406, AW378534, AW179332, AW377672, AW179023, AW178905, AL557751, AL905856, D80439, AW352171, D51213, AW377676, D80247, AW178906, AW352170, AW177731, D59373, AW178907, AW179019, AW179024, Z21582, AW177505, AW179020, AW360841, AW178909, AW177456, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018,

					AW352174, AW360834, D80258, D80014, D51103, AW179004, AW179012, AW178914, AW378525, D81111, C14227, AA285331, D59627, D51097, D80157, D58246, AW367967, AW177722, AW177728, T02974, AW179009, D51759, AW178774, AW178911, AW378543, AW352163, D59503, AW178983, AI557774, AW352120, AW178781, T48593, D80168, D58101, D59653, AW177723, AI525923, AI535850, AW177508, H67866, D45260, T03116, D51221, C14975, AW378533, C03092, AW367950, AA809122, H67854, AW177497, D80064, AW178986, D59317, AI535686, AW177734, D45273, C14973, AI525917, D60214, D80949, D59551, D51079, AI525227, C14344, D59474, AI525920, D60010, AA514184, C14957, AI525925, C14046, T03048, AI525235, AI525242, AI535961, AW378539, AI525215, AI525912, AW378542, H67858, C16955, C05763, Z33452, AI525237, AI525222, C14298, D59695, C13958, AW360855, AR018138, A84916, A62300, AJ132110, A62298, AF058696, A25909, X67155, Y17188, D26022, AR008278, A67220, D89785, AB028859, A78862, D34614, D88547, I82448, X82626, Y12724, AR025207, A82595, AR060385, AB002449, A94995, AR016808, AR008443, AB012117, I50126, I50132, I50128, I50133, X68127, A85396, AR066482, A44171, AR066488, AR016514, A85477, AR060138, A45456, I19525, A26615, AR052274, A86792, U87250, X93549, Y09669, A43192, A43190, AR038669, I14842, AR066490, AR066487, A30438, I18367, D88507, AR054175, D50010, Y17187, A63261, AR008277, AR008281, AR008408, AR062872, A70867, AR016691, AR016690, U46128, D13509, AF135125, I79511, A64136, A68321, AR060133, AB023656, U79457, AF123263, AB033111, AR032065, X93535, and AR008382.
HNGEN04	7898	586457	1 - 331	15 - 345	
HNGEK57	7899	734923	1 - 293	15 - 307	AA080935.
HNGEK16	7900	578914	1 - 441	15 - 455	AC004674.
HNGEI44	7901	800199	1 - 389	15 - 403	AL008628.
HNGEI11	7902	967314	1 - 439	15 - 453	AA176651, AC006011, AC005204, AC011604, AC004610, AC003077, and AC005337.
HNGEG07	7903	953658	1 - 609	15 - 623	AA457286, and AC005920.
HNGEF81	7904	570236	1 - 274	15 - 288	AP000344, AC007663, AC006549, AC000097, and AC006547.
HNGEE10	7905	968043	1 - 602	15 - 616	AA176861.
HNGED92	7906	654085	1 - 686	15 - 700	AC005823.
HNGED46	7907	838885	1 - 429	15 - 443	AI242667, AW271430, AC007313, AC002369, and AC005034.
HNGEB84	7908	783132	1 - 336	15 - 350	AL046060, T69835, N69499, and AL008718.
HNGEA17	7909	561293	1 - 249	15 - 263	
HNGD293	7910	888677	1 - 214	15 - 228	
HNGDW53	7911	973311	1 - 502	15 - 516	
HNGDW19	7912	502499	1 - 434	15 - 448	
HNGDV38	7913	572912	1 - 215	15 - 229	
HNGDV26	7914	572906	1 - 287	15 - 301	AA707705, AA707782, AC004788, AC005208, AC006213, AC002426, AL021939, AC010206.

						AC002040, and AC004822.
HNGDV15	7915	572902	1 - 283	15 - 297		AC005799.
HNGDV02	7916	920504	1 - 258	15 - 272		
HNGDV01	7917	916989	1 - 297	15 - 311		AC005669.
HNGDS21	7918	396889	1 - 700	15 - 714		AP000547, and AL121825.
HNGDR65	7919	572896	1 - 239	15 - 253		
HNGDQ68	7920	753164	1 - 553	15 - 567		AA085245, AA355671, AL137191, and UI5177.
HNGDQ56	7921	733550	1 - 435	15 - 449		T52788.
HNGDO68	7922	753580	1 - 257	15 - 271		R00963, M62017, and AC005753.
HNGDO54	7923	521883	1 - 356	15 - 370		AW151587, N34413, R52428, AA548692, AA372303, AA442528, AI821985, AA947534, AI732860, AA524832, AI446259, AW245354, AI049709, AA828641, AI744949, AL135744, AC006948, AL021578, Z93023, AL021368, U95626, AL031120, AC007537, AC007919, Z84477, AC006127, AL050348, AJ246003, AC005839, AC007283, AL022098, AL079304, AL034371, AL109798, AC003963, AC006511, AC006996, AC005178, Z93783, AL096791, AL021938, AC004526, AL121754, AC005971, AC005722, AC005756, AC004150, AL049539, AP000023, AL035071, U91321, AC004821, Z69917, AL022719, AL031985, AC003663, AL035088, AC004975, AL079342, AC005354, AC006317, AL133163, U07562, AC008009, AL049829, Z83844, AC004106, X71342, AC005274, AC005841, AL109627, AL031311, Z93241, AC003099, AC005293, AL034555, AL121658, AC004477, AC005598, AL117352, AL035423, AC016025, AC009247, AC003104, Z94721, Z98886, AC005179, Z85987, Z98949, AL031602, AC005037, AC004967, Z97054, AC005288, AC005695, AB001523, AC006241, AC007395, AC002316, AC006120, AL049780, AL031775, AF196779, AC004167, AL035422, AC004584, AC004675, AC005369, AC004587, AF064861, AF205588, AC004933, AL035658, AL031589, U52427, AC007421, L78833, AC007731, AC012627, AC007917, AL121653, AL078644, AC005620, AC005738, AC005548, U95742, Z85986, AC004887, AC004033, Z84484, AF088219, Z97205, AB023049, AF069291, AP000132, AP000210, AL035400, AC005940, AC005531, AC005678, AP000356, AL022324, AC007216, AP000088, AC004491, AL022336, AC005874, AF134471, AC005815, AC005899, AC020663, AC007358, AC000052, AC005041, and AL078477.
HNGDO53	7924	574450	1 - 204	15 - 218		
HNGDO52	7925	868772	1 - 300	15 - 314		AI093647, AA716146, AA749073, R49009, AA506527, AI073736, AI191643, R45527, AI394236, AI278266, AA988102, AI123578, AI201722, AA010543, AA729674, AI953613, AA977224, AW084266, AI471058, AI127344, AI079368, AI355607, AI890557, AI081829, W87769, AA236572, AW407241, AA358614, AA402984, H69243, AI701110, W94570, R45526, AA679112, R37845, AA424401, AI910481, AI347131, and AA402135.
HNGDO40	7926	574449	1 - 152	15 - 166		AC005950, and AC001228.
HNGDO30	7927	574446	1 - 119	15 - 133		AC007785.

HNGDO29	7928	526804	1 - 333	15 - 347		
HNGDO18	7929	526514	1 - 403	15 - 417		AC006376, L38797, AL121934, AC004236, and AL117327.
HNGDO06	7930	936059	1 - 335	15 - 349		AC006367.
HNGDO05	7931	932400	1 - 129	15 - 143		
HNGDO04	7932	523469	1 - 325	15 - 339		Z78304, AP000113, AP000045, and AC006071.
HNGDM11	7933	967512	1 - 522	15 - 536		R78482, AA649326, and AW303334.
HNGDL51	7934	860671	1 - 1029	15 - 1043		AW378532, C14014, H73550, D80164, AA547979, W61253, C15076, D80045, A1791227, AC003684, AC002519, AC002073, AL022165, AC000403, AC002559, AC004983, AL109755, AC007285, AL031293, AC007225, Z95116, AC006312, AC004707, AL020995, AL050307, AL022316, AL034429, AC007151, AL121595, AL022238, AC005971, AC002326, AL049765, AL031320, AC004876, AC008101, Z98200, L44140, AC002425, AC005071, AC006014, AF001550, AC003962, AL022329, AC005005, AC004966, AC005620, AC006012, AC007227, Z46936, AF111167, AC002350, AC005488, AC016027, AC005412, AC016830, AC004216, AC008079, AC005519, AC006965, AC002563, U07563, AC004517, AL034423, AF001552, AC004671, AL031591, AL035587, AP000356, AC000353, AL031670, AL031427, AC007011, Z97054, AC003012, AC002072, AC004967, AC002312, AC006388, AC004616, AC005736, AL096791, U47924, AL078584, AL031121, AC006023, AC005527, AC005667, AC008040, AC004882, AP000045, AC005086, AC004522, AC006011, AP000055, AP000170, AP000123, AC003026, AC005808, AC005821, AC005332, AL035086, AL133485, AC008044, AC006001, AL033521, AC002381, AC004531, AL031291, AC007637, AC004921, AC004662, AC005015, Z95115, AC005696, AC005839, AL133396, AC004832, AC002302, AL049776, AC002543, AL035400, AC018633, AL030996, AC005197, AP000313, AC004914, Z97053, AC005881, AL049631, AC004848, AL022336, AC005678, AL022476, AC005529, AC004067, AC008116, AC005328, AC004551, AC002300, U52112, Z94056, AC007664, AC004041, AC007376, AP000050, AC005874, AF134471, AC005089, AC005585, U91325, AC005632, AL049758, AC008018, AC004997, AL031431, Z68164, Z98304, AC003667, AP000193, AC004996, AC005778, AC007919, AC005856, AC004922, AC004804, AC006430, AC016025, AF129756, AC002132, AC004020, AC002551, AC009516, AC004491, AC005484, AL031848, AL049869, AC008072, AL023879, AL049781, AC003950, AF196969, AC007057, AC006512, AC008009, AC003663, Z98036, AC007021, AL034548, AC004678, AP000117, AC004084, AC006146, AC006960, AC005274, AC007684, AC005725, AC003108, AL133216, AC004560, AP000272, U91318, AC006449, AC004134, AC003690, AF024534, AL121757, AC007050, Z97939, AL021154, AF069291, U95740, AC008372, AC002369, AL050318, AC004151, AL031673, Z97630, AC004813, AL121748, U82828, AP000557, AL031295, AC004638, AL049795, AC007073, AC004019, AC004453, AL035659, AL050312, AC004699, AC008012, AL096773, AP000248, U91323, AC007546, AC004923, AD001527, AC004150, Z84484, AP000695, and AC005048.

HNGDF94	7935	796744	1 - 114	15 - 128	
HNGDF70	7936	506694	1 - 238	15 - 252	
HNGDF58	7937	506693	1 - 562	15 - 576	N79214, N79207, and Z95115.
HNGDF38	7938	574349	1 - 344	15 - 358	AI133044, and AC000080.
HNGDF10	7939	968240	1 - 336	15 - 350	
HNGDE79	7940	781680	1 - 430	15 - 444	R15702.
HNGDE74	7941	765812	1 - 415	15 - 429	T81056, H72210, and AC003079.
HNGDD27	7942	860680	1 - 397	15 - 411	AA319803, AI340151, AA368329, CI4121, AI889426, AA745356, AI281622, AA604149, AF196971, AC006071, AC005785, AC007382, AI078581, AC002310, AC005914, AC008078, AC007731, AC005500, AC004821, AC004815, AP000356, U85195, AC005031, AC002470, AC003664, AC004448, AE000658, AC005409, AC007707, U80017, U29953, AI031683, AC004097, AC004797, Z84480, AC004890, AC004477, AI031681, AC004770, AP000563, U91319, AC005015, AC005944, AC004638, Z83826, AI049843, AC004653, Z82188, AC006285, AC005399, AC005037, AC005696, AC005899, AC002550, AC004236, AI031584, AI133382, AI121652, U95739, AP000133, AP000211, AP000501, Z82214, Z86090, AI049712, AF129077, AC006088, AC007666, AC005480, AI050318, AC005776, AI049776, AI109628, AI049872, AC005736, AF001549, AF165926, AC004999, AI049759, L78833, AC004125, AC006241, AC004883, AC005057, AB023049, AI034420, Y10196, Z83840, AI031228, AC004491, AC005620, Z84487, AD000092, AI034419, AF207550, AF196779, AP000031, AP000210, AP000132, AC005746, AI050341, AI117258, AC006130, AC005578, and AC004991.
HNGDD03	7943	924933	1 - 188	15 - 202	AI523540, AI358513, AW404543, AI048969, AP000347, AP000346, AJ224162, AC004842, Z95114, AC003665, AC002322, AP000555, AP000354, AJ229041, AI022311, U67093, AR028159, AC007242, AI035249, AC005338, AF047825, AC005358, AI109963, AC008545, Z94056, AI031681, AC004921, AP000512, AF111169, U82828, AC006328, AD000833, AI033504, AC004124, AI008635, AI022721, AC018633, AB023051, AC002546, AB016897, AC007052, AC007785, AC004997, and Z74021.
HNGDD02	7944	920675	1 - 172	15 - 186	
HNGDB78	7945	772804	1 - 300	15 - 314	AP000555.
HNGDB61	7946	742043	1 - 460	15 - 474	AA137010.
HNGDB59	7947	688019	1 - 149	15 - 163	AI021398.
HNGDB54	7948	574359	1 - 178	15 - 192	
HNGDB40	7949	574346	1 - 96	15 - 110	
HNGDB16	7950	574352	1 - 121	15 - 135	
HNGDB04	7951	576460	1 - 149	15 - 163	AA326984, and T82481.
HNGDA08	7952	959964	1 - 441	15 - 455	AI088884.
HNGCZ54	7953	730895	1 - 437	15 - 451	H30669.

HNGCY60	7954	827144	1 - 559	15 - 573	W79559, AI916779, and AW304481.
HNGCY10	7955	968247	1 - 320	15 - 334	AA259067.
HNGCQ38	7956	544484	1 - 1014	15 - 1028	
HNGCPI4	7957	417271	1 - 587	15 - 601	T99876, AA146850, and AL122007.
HNGCO71	7958	663340	1 - 639	15 - 653	AW273218, AA378690, AI281818, AI791913, AI917132, AA904275, AI252506, AA601294, N54152, AI493583, F35689, AA045734, AI301700, AA934680, AA070614, AI654525, AI754653, AW304536, AI792133, AA516226, AI933714, AA494097, AI821714, W45205, F30586, AF207550, AP000501, AL022238, AL080243, AC004973, AC004983, AC006077, AL022721, Z97054, AF111168, AC006511, AJ011930, AL008726, AC002126, AC000159, AC009516, AF002223, AP000704, AL034548, AC004491, AP000113, AP000045, AC016025, AL031311, AC005899, AL050318, AC004671, AC005037, AC008115, U91323, AC007676, AP000251, AC005088, AC004821, AC006023, AC005808, AP000159, AP000017, Z98200, AC004999, AC005632, AC006441, L44140, AP000030, U95742, AF196779, AC006430, AL122020, AC006512, AC007216, AP000553, AF196972, AL031666, AC005823, AC007685, AF053356, AL139054, AC005971, AL031680, AC007066, AC004890, AC006080, AP000502, AC004913, AI049761, AC004685, AL121653, AC007390, AC006285, D87675, AC007226, AC006449, AL022318, AC007899, AL133312, AF111169, AL049869, AC019014, AC006088, AC005409, AC004686, AC009247, L78810, AL133448, AC005736, AC004019, AC004673, AC005837, AC005755, AC002395, AP000252, AC002470, U29953, AJ003147, AL133163, AP000248, AL034553, AC004526, AC005081, AC002369, AL049759, AC005624, AC004033, AL034429, AL008582, AC002301, AF117829, AP000557, AP000555, AC005280, AC008033, U47924, AL031736, AF165926, AC004996, AC009044, AP000692, AC020663, AC016026, AL035587, AL022323, AC007308, AC004478, Z83840, AC006965, AC005089, AC002115, AF196969, AC006254, Z83844, AC005488, AC005682, AC004884, AF003626, AL034555, AL035422, AC004893, AC003046, M89651, Z97056, AC002565, AC006165, AC006101, AC005057, AP000008, Z98884, AC002425, AP000031, AC004895, AF030453, AL133246, AL031447, AP000359, AL035458, AC007731, AC012384, AC002544, AL117258, AC006126, AC005500, Z85986, AC006241, U80017, AC005841, AL121655, AB023051, Z84469, AC005696, AC006480, Z83826, AC005231, AC005291, and AL096701.
HNGCO15	7959	494338	1 - 375	15 - 389	AC004706.
HNGCC39	7960	704547	1 - 532	15 - 546	H26664, and H26870.
HNGCE81	7961	961700	1 - 1702	15 - 1716	AI284640, AI046409, AI963720, AI431303, AI754955, AA581903, AI281881, AW303196, AW274349, AI334443, AL042853, AW301350, AL046205, AI801482, AL138265, AL041690, AL042420, AI270117, AL119691, AW193265, AA720702, AI890348, AI754336, AL037683, AA469451, AI708009, AL138455, AW327868, AA521399, AI345654, AA521323, AW021583, AA491814, AI110770, AA680243, AI457397, AI613280, AW265385, AA490183, AA126450, AW069227, AI149478, AA468131, AA877817, AW439558, AW268300, AI732120, AA394271,

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				AA782358.

HNGBF25	7970	678767	1 - 584	15 - 598	AA054162, and AF130342.
HNGAZ70	7971	757413	1 - 345	15 - 359	R34132, and AL048966.
HNGAZ56	7972	733631	1 - 467	15 - 481	AI885390, N64652, AI694923, AA447143, W56786, W56564, AP001053, and AP001052.
HNGAZ08	7973	959977	1 - 422	15 - 436	AI221476, and AA825395.
HNGAX93	7974	792525	1 - 403	15 - 417	W87440, and AC006511.
HNGAW50	7975	723632	1 - 530	15 - 544	R97185, H47494, AI806978, AI052640, AI218923, and Z94721.
HNGAV20	7976	669901	1 - 420	15 - 434	H94026, H63237, H94115, H63315, and AI524673.
HNGAR02	7977	920736	1 - 552	15 - 566	AA954152, AA584702, AA585098, T18597, AA585325, Z32822, R45895, R29657, D53161, D61185, AA585101, Z32887, D57491, D59751, C15406, R28735, R29445, AI557740, C15069, AI541365, AI525316, AI557262, R28892, AI557864, AI541356, R28965, Z28355, AA585155, Z33559, AI526078, AI526140, AI525500, AA170832, AA585378, D54897, AA585439, D60765, D60844, D59436, R29218, AI557718, AI557727, AI541517, AI546999, AI557731, AI535639, AA585329, D51433, R28967, R28895, D54850, AI541205, AI541535, AI546971, AI526184, AI525556, C16294, C16315, AA283326, AI541383, D55233, AI546875, AI547250, AI526016, AI540903, AI557763, AI547039, D61254, D59458, D53447, AI557734, AI541523, AI557084, AA585476, C16292, C15120, C15762, D52835, AI557809, D53472, AI557807, AI557787, AI541346, C16300, AI541013, C16293, Z36724, AI525306, AA585356, C16305, C15737, AI541374, AI541034, AI525339, AI546831, AI547202, AI557533, AI557408, D60730, AI557758, AI546945, AI525431, C16296, AI526117, AI526191, AI557155, AI547196, AI526194, AI535660, AI557602, AA585430, AI526112, R29179, AI526024, Z30131, AI525320, D57186, AI546921, AI540974, AI541307, AI526109, AI546996, AI541321, AI557852, AI540967, AI546891, AI547006, AI525856, AI557279, AI526158, AI557808, AI546829, AI546901, AI557317, AI536138, C14208, AI525168, AI526146, AI541422, R29262, AA585453, AI526195, AI541402, R29172, AI541492, AI526113, AI541515, C16290, AI557264, R29177, AI557799, AI541527, AI557039, AI525114, AI557810, AA585389, AI556967, AI541516, AI541423, AI526176, T19407, AI547189, AI525656, AI557041, AI526073, AI524904, AI541027, AI547137, C14210, AI525076, AI557786, T41289, AA514191, AI541510, AI526205, AI546954, AI526180, D61060, AA585434, AI540944, AI525332, AI525286, AI526169, AI526187, AI541506, AI541415, AI557238, T41329, AA585420, AI524891, AA585117, AA585440, C14322, AI239433, AI540920, AI546828, AI557796, AI524890, AI557785, AI541345, C14391, AI557285, AI546855, AA174170, AI547158, C14723, AI557082, AI547026, AI540882, AI541075, AI526026, AI540928, AI046024, AI541514, D51413, AI547122, AI546841, AI557802, AI541017, AI547138, AI541390, AI526125, AR062871, A25909, AR038855, X82786, Y09813, X76012, AR031358, AR031365, AJ244005, Y16359, AF082186, AR038762, Z32836, AR054723, X81969, D50010, X55486, D13509, AJ244004, A20702, AR062872, AR062873, A20700, A43189, AJ244006, AJ243486, AR017826, D78345, AR017907, AC005913, AJ244003, AR003381, Z30183, AF213384, A62298, AR050070, A82595, A82593, AF006072, A98420, A98423, A98432, A98436, A98417, A98427, X82834, and

HNGAQ75	7978	766512	1 - 167	15 - 181	L36913. N83807, AA584125, AA339692, AA377189, AA829154, AA828739, AI590593, AC005484, AC004106, AL031281, AL033392, AL034554, AD000813, Z95114, U95739, AC007050, AF205588, AC003103, AC007786, AP005375, AP00556, AC009405, AC006236, AL021707, AL049636, AC005529, AF019413, AP000502, AC000120, AB026898, AC004152, Z98946, AC004966, AF001548, AP000092, U91321, AC003664, AC005353, AC002365, AC007371, AP000237, and AF107258.
HNGAQ73	7979	574649	1 - 277	15 - 291	
HNGAQ49	7980	574652	1 - 159	15 - 173	Z95126.
HNGAQ38	7981	574658	1 - 113	15 - 127	
HNGAQ37	7982	575492	1 - 136	15 - 150	AI418661, AA452325, T07327, F31867, AA632556, AA748826, AA626595, AA904211, AA298362, W63553, AA211734, AA581247, AW023111, AI370170, AA069255, AA489327, AI758424, AA496724, AA084609, H73550, W96277, AI973173, H90878, AA489330, AW130350, AA719847, AI567391, AA020873, F05830, AA984857, H90114, T62543, AA837771, AA481887, AW419389, AA668587, R99144, F23294, AA683069, AA443587, AI742168, AA568314, AI446478, T83057, AA579188, R93858, AA021429, AI431513, AA018588, AA021428, AA736488, AI300818, AI310992, N73021, AL037533, H84975, AA441810, AI889579, AA018777, AA019939, AA479877, AA019872, AA610789, F16671, AI821273, AA714073, H07953, AI160786, AA722505, AI583291, AW151935, AA523695, AW408596, AA113273, AA229422, AI198718, AA612578, AA086435, AA936718, AA808036, AA091982, F31811, R67701, AA613399, AI368732, AA452887, AA577783, AA642809, AI733717, AA302661, AA668905, AA076575, AA226357, AA315361, AA111870, AA320105, AA226356, AI271762, AI858889, AI680547, AA243976, AA640310, AA324288, AA157837, AA425924, H58354, R64640, N27615, AA502193, H90845, AA630923, AW162303, AA583386, AW029269, AW162047, T65895, AW161786, AW019964, AA579281, AL135363, AA608570, AA205436, AA847502, Z84469, AL121915, AC002477, AC003010, AC006480, AC005971, AC005947, AC006275, AC004257, AL109952, AC004736, AC005208, AL035078, AP000501, Z85996, AP000692, AC004076, AL035691, AC003109, AC007546, AL050332, AC004890, AC005225, AC005243, AF001552, Y11107, AP000362, AC005366, AC005009, AC004814, AL118516, AL024474, AL035530, AC004408, AF196969, AL030995, AL035071, AL023283, AC005378, AL035687, AC004590, AC000029, AC002432, AC004859, AL009181, AC005039, AP000553, AC005014, AC007057, AL049872, AL022323, AC005899, AC005013, AC007363, AC008009, AC005736, AC006017, AC005828, MI3792, AF033356, I34294, AC005837, AC005921, AL035086, AL023878, AB020864, Z93241, AC004878, AC007055, AP000345, AC003007, AC007199, AC004796, AC006050, AC006390, AC005031, AL031846, AF001549, AC005527, AC004050, AL121603, AL031283, AC004381, AC005207, AL020995, AC004999, U80017, AB020690, AF073485, AC005190, AF141309, AP000319, U51280, AC004789, AC004780,

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HNGAQ14	7983	574660	1 - 130	15 - 144	AC005815.
HNGAQ02	7984	920756	1 - 206	15 - 220	
HNGAQ01	7985	921434	1 - 148	15 - 162	N23637, AA630173, AA486530, AA680247, AA161476, AA160658, AA166686, AA668670, T58393, U13369, and X68195.
HNGAP69	7986	513808	1 - 653	15 - 667	AC005562.
HNGAM31	7987	426200	1 - 487	15 - 501	AA661948, AA665330, AL151261, AA501784, AL138265, AW023672, AL287964, AL282832, AW103415, AW271904, AL343137, AL245679, F17518, AL707788, H62778, AA491814, AL049996, AL028540, H88666, AL537955, AL304929, AL061296, AW080134, AA482896, AA603323, AA340747, AA077776, AL358343, AW088202, AL432103, AW276435, AW021583, AL679045, H84359, AW104748, AW079809, AA076408, AA342562, F17700, R92640, AW029038, F29989, T40848, AL446464, R19647, AA318652, AA569190, AL625244, AA747276, AA557686, AA177061, AA708352, AA747480, AA364224, AA878149, AA502050, AL570261, AA569182, AL754661, AL345681, AL345675, AA448375, AA448221, AA452563, AL962050, AA469451, AA843450, AA747472, AL510838, AL929531, F28765, AL339850, F32893, AL358229, AA229785, AA515051, AA481363, AL049649, AL271762, AA452744, AW301350, AW303196, AW274349, AA482681, F29198, AA228420, AL045077, AA601680, AA679493, AL791390, AL216054, AA730635, AL623720, AW406755, AL251002, AA169194, AA405453, AA482711, AA357307, AW167154, AA449088, AA367986, AA488746, AW151896, AA583244, AL061313,

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HNGAJ78	7988	773425	1 - 900	15 - 914
HNGAD20	7989	890591	1 - 349	15 - 363
HNFJ167	7990	751605	1 - 486	15 - 500
HNFJB08	7991	959428	1 - 664	15 - 678
				AC004465.
				T89724.
				H78418, AL208043, H68012, T87102, N77399, AA744206, AA713765, H93975, H58585,

					AI223968, AA569597, AA601186, AI263494, AC008116, AF190884, AP000564, AF030453, AL031311, AC005088, AF068624, AL035106, AP000151, AC004197, AL023913, AC003007, AB003151, AC011718, AC008132, AC008079, Z93241, AP000010, AC005632, AC002407, AC004491, AP000454, AC007546, AC005003, AC005846, AC005530, AB023048, AC009247, AP000298, AC002115, AC004263, Z95703, Z83821, AL020991, AC006101, AF039907, AC006987, M59199, Z84487, AL135960, AJ131016, AC004985, AL109952, AC004223, Y10196, AC005018, AC002426, U78027, AC000387, AL031577, D84394, AC005366, AC007358, AP000044, AC004929, AC004883, AC007156, AP000472, AC005291, AP000347, AC007748, AC004216, AC007565, AP000511, AC005225, AC003037, AC005913, Z97053, AC007350, AC004622, AC007766, AL035415, AP000350, U91326, AC005562, Z99943, AP000116, AC006285, Z84477, U73643, AL049569, Z99716, AC005399, AL035587, AC006948, AC009516, AC004914, AC009263, AC006572, U47924, AC006509, AC016025, AC007388, AC000003, AF187320, AP000552, AC005568, and AC007057.
HNFY76	7992	767681	1 - 341	15 - 355	W88982, AA741151, AI699945, AI915838, AI806991, AI911962, and AL022328.
HNFY53	7993	467056	1 - 436	15 - 450	AA021619.
HNFY14	7994	658129	1 - 253	15 - 267	AW363863, AI741868, AA181596, AW450052, and AF117754.
HNFY17	7995	429602	1 - 559	15 - 573	AC003006.
HNFY07	7996	953330	1 - 512	15 - 526	H67460.
HNFY11	7997	966347	1 - 421	15 - 435	AI475658, AW300535, AA769413, AI970294, AI962597, AI262866, AI288806, AI264118, AI056197, AI221947, AI480037, AI818548, AI803669, AI092753, AI379065, AW450384, AI140316, AI242596, AI436296, AI199008, AI784541, AI819414, AA994821, AA242747, AA431259, AI814761, AA577250, AI275187, AA909652, AA417974, AA243870, AA862672, AA746639, AW340129, AA633304, AA878919, H23830, AA004808, AA830716, AI027827, AA947663, AA948421, AW025951, and AF132948.
HNFY59	7998	739358	1 - 533	15 - 547	T89075.
HNFY59	7999	951005	1 - 1111	15 - 1125	W96277, AA846942, AA489978, H01110, AA426451, AL048901, AW151018, AA569179, AA579399, AW408767, AA020873, AL022323, AC005244, AC004832, AC002511, AC004876, AC007308, AL031577, AC003101, AC005057, AC016027, AC016830, AP000695, AL096702, AC005562, AC005355, Z85987, AP000099, AL031985, Z94056, AC004647, AL035423, AC006388, AF109907, AC002310, AC002425, AC006958, AL035684, U07562, AL109827, U62631, AF038458, AC005971, AL078634, AL133243, AC005736, AC007193, AC003108, AP000245, AP000036, AC004851, AL031295, AL031228, Z84484, AC005962, AP000033, AP000509, AP000112, AJ003147, AC002996, AC007191, AC004792, AC004381, L78810, AC005274, AP000689, AL031591, AC005378, AC005412, AC005783, AC004972, AC004963, AL031291, AC007041, AL133246, AC006511, AC005544, AC002477, AC006441, AL031255, AC005529, AP000008, AC005940, AP000501, AL096701, AC005899, AC005225, AL031774, U62293, U63721, AC004966, AC007917, AL021977, AC006360, Z93016, AC020663, Z98304,

						AC005778, AC005920, AC009178, AF134726, AC005039, AL031846, AL031283, AC008372, AP000260, AC006040, AL031230, AC007790, AP000167, AP000052, AP000120, AF088219, AC005525, AC006430, and AC004675.
HNFHX58	8000	735299	1 - 660	15 - 674		N73263.
HNFHV96	8001	716913	1 - 923	15 - 937		AA256102, R24951, R14228, AA256037, N80330, A1740979, AA781179, AA991559, AA757102, A1262320, AA770189, AA398687, AA621291, AA85058, A1381911, AA831699, A1026903, A1698917, AW338905, A1479899, AL040709, and AC005263.
						AC006275.
HNFHU61	8002	741901	1 - 349	15 - 363		
HNFHR56	8003	733297	1 - 433	15 - 447		
HNFHA09	8004	961165	1 - 450	15 - 464		AA206774.
HNFHS84	8005	783199	1 - 379	15 - 393		H83638, R09824, R85639, R84674, and H83639.
HNFGL65	8006	574598	1 - 81	15 - 95		
HNFGL42	8007	526844	1 - 105	15 - 119		
HNFGL17	8008	574597	1 - 170	15 - 184		
HNFGLH36	8009	574601	1 - 185	15 - 199		
HNFGLH32	8010	574605	1 - 227	15 - 241		
HNFGLG80	8011	574602	1 - 59	15 - 73		
HNFGLG18	8012	574608	1 - 261	15 - 275		N98823.
HNFGLG06	8013	936086	1 - 282	15 - 296		A1284583, AL008629, Z31001, AB023051, AC005225, AL133245, AL034549, AC005911, AC004895, AC006480, AC006023, AL020993, AP000512, and AP000345.
						AA730916, AL048002, AA605266, AA748140, A1246884, AA229034, AA229080, AA187277, A1285453, AA181070, AA991792, AW410715, A1471827, AA670456, AA155784, AA226142, AA452998, AW409893, N23919, T71765, AA659832, AL035086, AC005207, AC005482, AL049712, AF001549, AL035555, AC004815, AC005157, AC002470, AC016027, AC016830, AP000510, AL033533, AL049843, AP000555, AP000031, AC007382, AL118510, AC006359, AC006312, AC004491, AR036572, U91328, AL109963, AL049749, AF165926, AC007308, AC004821, AL049869, D16561, AC004019, AF111168, AC005295, AC012384, AP001053, AC005078, AL008721, AC004905, AC000353, AL022069, Y10196, AL035400, AC007376, AC007637, AF024533, AC002477, AC004587, AC006450, AL133448, AC005225, AC004560, AC006111, AC005531, AC002425, AC009294, AC006449, AC005049, AL009181, AP000692, AC004583, Z82194, AC007242, AC004685, AC004878, AC004148, AC005071, AC002544, AC005484, AP000952, AC002480, AC002394, AC002040, L44140, AC005914, AL139054, AF196972, AC006480, AP000691, AC010169, Z82206, AC005030, AL020995, AC005940, AC007226, AL031584, AL109628, AC007842, AL022165, Z84480, AL035209, Z97989, AL031311, AC005158, AC004938, AL035683, AL096801, AC006505, Z95115, AL021808, AC004383, Z93023, AC005520, AL031277, and AL022238.
HNFGLF88	8014	522077	1 - 314	15 - 328		

HNFGF66	8015	860896	1 - 358	15 - 372	AW292971, AA993724, and AL049557.
HNFGF52	8016	522293	1 - 346	15 - 360	
HNFGF37	8017	574609	1 - 210	15 - 224	AI573253, AF009040, AF009039, AB020717, AP000276, AP000037, AP000105, AJ006855, U45479, D85682, and AP000275.
HNFGF80	8018	571306	1 - 231	15 - 245	
HNFGF41	8019	504165	1 - 140	15 - 154	AW402309, AA351072, and AB007945.
HNFGF81	8020	778250	1 - 531	15 - 545	T94000, T93980, AI820713, AI732292, AA912299, AB014088, AC004190, and AP000516.
HNFGA92	8021	790617	1 - 413	15 - 427	W21191, AA032052, and AA436218.
HNFGA85	8022	521880	1 - 408	15 - 422	AA130623, T73021, T60029, AA226532, AI354847, AI520748, AA209436, AI567391, AI025355, AI018726, AI929298, AI929825, AW157180, AI679294, AW132065, H63515, H62137, H69577, H53255, AA653291, AA626840, AI859618, W32993, H94979, F23235, F33184, R66121, AA418696, AI671077, AA584098, AA418757, AI679871, N76251, AA468974, AA230025, AA468371, AA228368, AA224889, AA468505, AA228269, AA228442, AA224816, AA757621, AA467943, AA314404, AA425924, AA614254, R94909, AA487720, AW275763, AW084431, T05617, AL047480, AA126975, AI469125, AA211464, AW023975, AI683426, AA573214, Z82215, AC005231, AC002288, AC005203, AF146367, AC000379, AF124523, AC006599, AC002312, AF118808, AP000009, AP001052, Z97196, Z95115, AF195658, AC005527, AC006530, AC000025, AC006111, AC005529, AL035423, AL050318, AC006561, AL049697, AC004841, AC002126, AC005325, AL049780, AF091512, AL009175, AC005015, AC006536, Z93023, Z77249, AC007216, AC005225, AC003689, AC004887, AC004966, AC004663, U91318, Z83838, AC004913, AJ003147, AP000503, AC005520, AP000505, AC005971, AC004036, AC004812, AC007688, AC009247, AC000052, AC005081, AF001548, AC005180, AC007387, AF050154, AJ006996, AL022318, AC005545, AF031076, AC008282, AC007566, Z84484, AF134726, AL031680, AC007666, AC007934, AC002985, AC016831, AL035587, AC005684, AC007308, AC005193, AC004678, Z98044, AL031311, AC005011, AC006511, AC002045, AF045555, AC005255, AL132716, AC005839, AC005736, AL096766, AP000553, AP000210, AP000132, AP000501, AC009516, AC002039, AL139054, Z97630, Z93244, AC005482, AP000048, AL031589, AL050332, AC005914, AC005028, AC016025, AC004539, Z99128, U07561, AC005578, AC005288, AF053356, U80017, AP000141, AC005899, AP000065, AL034420, AC003982, AC002551, Z82173, AC002369, AL021878, AL031774, AF031078, AL049843, AC005372, AC005284, AP000309, AL049869, AB023052, Z82190, AL031846, AC006571, AF030876, AL022330, AC005562, AL021937, Y14768, AC007386, AC005046, AC002470, AL132987, AC004139, AC003957, AC001036, AC006512, AL008582, AC004674, AC004262, AC005089, AL049793, AL049760, AL132712, AC004084, AF196779, Z94044, AC007551, AC004447, U91323, AL022476, AC005037, Z82178, AL021366, AC006084, AC004895, U95090, AC004983, AC006487, AL022721, AL031005, AC000035, AC005821, AC006130, AC007226, AC006468, AC004152, AC004263, AL031282, AC004686, AC002994,

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HNFGA57	8023	571305	1 - 208	15 - 222	
HNFFU64	8024	578096	1 - 278	15 - 292	H81542.
HNFFR38	8025	455273	1 - 732	15 - 746	
HNFFQ29	8026	860905	1 - 392	15 - 406	AA954660.
HNFFO20	8027	836239	1 - 484	15 - 498	H30642, and AL049552.
HNFFL57	8028	786899	1 - 410	15 - 424	R71423, AA649995, AA548429, H00226, AA442374, AW363180, AI806931, W35309, R77144, W92109, AA628013, N39838, and H27628.
HNFFFO5	8029	932432	1 - 145	15 - 159	N56475.
HNFFFC75	8030	767453	1 - 220	15 - 234	AI884861, AA679353, AL047493, AA363027, R48980, AI537800, AA452843, AA910783, AI377396, AA541532, AA857812, AA376896, T08386, AI580979, AL037777, H38769, T90477, AI362442, AA253451, AI419337, AA290802, AI361090, AI570805, AA831408, H24953, AA295893, AA058312, AI280574, AI421950, AA295899, AI049630, AA599080, AA769141, AW026305, AI348467, AW161459, AA219349, T60940, AW161879, AI803767, AI191343, AW268329, AI003797, AA936548, AA746939, AA304790, AA669957, AW327555, AA528574, AW265688, AL120004, AI538363, AA528503, AA809125, AI289050, AI364568, AI284092, AA809089, AA313075, T56025, H65697, AA772704, F11421, T17332, AI334775, AA283081, T98915, AW363085, AA581317, AA650447, AA236867, AI689198, AI274697, AI469392, AI860021, AL038842, AL135383, AA890060, AW168510, AL008635, Z82097, AC007684, Z73417, AL035072, AC004859, AF196969, Z82182, AF003626, AC005004, AC002563, AP001059, AL109983, AF139813, AC004712, AL021155, AL023581, AC004770, AC004228, Z82248, AL031590, AC007450, D86995, AC005280, AF024534, AC008150, AC005519, AL021453, AC002454, AL109623, AL031666, AJ006216, AP000264, AP000035, AP000100, AL050318, AC006080, AF029308, AC004616, AC004655, AC006976, Z82250, AL133245, AL132712, AC005520, AL109847, AC007011, AL021917, AC005779, AC002404, AC005690, AC002350, V00596, AC004185, M17262, U15177, AC004656, AL035588, AC006050, AC005873, AC007193, AC005300, AC004922, AL049745, AP000962, AC002982, AC004088, AF024533, AC005086, AC011456, AC012085, AC007686, AF111169, AF035968, AC000082, AC003029, AC004673, AC005071, AC007160, AL023876, AC002094, AC007860, AC006946, AC007880, AC005335, AC006505, AL021977, AC006347, AC004854, AL031659, AF124730, AL008631, AC002073, AL022318, AB014079, AC006139, AC004927, AL117342, AP000514, AL117354, AC004132, AL079342, AC006115, AL133500, AC006512, AC007934, AL022334, AC005316,

					Z95329, AL034402, AP000513, AC007277, AL031000, AC003682, AC005666, AL022165, Z85996, AC000378, AC005219, AC007917, Z98304, AL035249, AL031283, AC005041, AC000392, AC003002, Z98743, Z98043, Z95115, AC004841, Z85986, AC004966, AC005578, AC006948, AC005512, AC007030, AC004491, AL096791, AC004771, AP000128, AP000206, AL031672, AC004408, Z82194, AP000245, AP000553, AC007938, AC009516, AC002365, AC007308, AL021393, AC005081, AC004554, M19508, AL021391, AC005317, AL121748, AC005624, AC004785, AC005480, AL031595, AC005846, AC004891, AC006576, AL034417, AC004552, AP000352, AL133312, AL121652, AL034549, AC006372, S65785, AC002527, X55448, AC004797, AB012168, AC004534, AF134726, AC004149, Z95125, AC005593, AL035659, AC006146, AC006011, AL078638, AL049843, AC005828, D49685, M55987, X95887, AC003965, Z98882, Z73964, AF184110, Z98051, Z93096, AL117351, AP000502, AF019413, AL031735, AC003957, AL020997, AL021940, AC002432, Z84469, AC006059, AC005906, AL049839, AC004851, Z69706, AC002401, AC005355, AL022721, AC005884, AP000509, AC005053, AB014077, Z81010, AC004209, AC004611, AC005182, and AC007868.
HNFEY24	8031	677114	1 - 363	15 - 377	U82757, AL049692, AL049745, AC005764, and Z92542.
HNFEY06	8032	936099	1 - 404	15 - 418	H67644, AL079695, R15238, T26386, and R12358.
HNFEQ28	8033	685514	1 - 383	15 - 397	AA039447, AL765745, W27268, AL137465, and AF159447.
HNFEI84	8034	783211	1 - 479	15 - 493	H74104.
HNFCV02	8035	861004	1 - 878	15 - 892	
HNFCO90	8036	529966	1 - 156	15 - 170	AL022098.
HNFCO85	8037	529967	1 - 267	15 - 281	
HNFCO52	8038	518637	1 - 334	15 - 348	Z85987, and Z94161.
HNFCO41	8039	529970	1 - 296	15 - 310	Z55913.
HNFCO37	8040	507312	1 - 841	15 - 855	AA203114, AA001350, H70366, R00660, H83070, and R95157.
HNFCO32	8041	529971	1 - 321	15 - 335	
HNFCO22	8042	529973	1 - 146	15 - 160	
HNFCI25	8043	556464	1 - 380	15 - 394	N65923, and AF109907.
HNFBY08	8044	960222	1 - 347	15 - 361	R94859, H65499, and AC005920.
HNFBT45	8045	574972	1 - 521	15 - 535	AL031728.
HNFBQ02	8046	921029	1 - 412	15 - 426	AA019957.
HNFAF78	8047	601639	1 - 590	15 - 604	AC007225.
HNEDU66	8048	861030	1 - 391	15 - 405	AA971408.
HNEDR54	8049	730953	1 - 392	15 - 406	AA235166.
HNEDP86	8050	785736	1 - 426	15 - 440	AA251806, AW008517, and AL035530.
HNEDO77	8051	955894	1 - 498	15 - 512	AA513389, AI597937, W21995, AI619825, AW304348, AA307643, AA247984, AW025299, AI738561, AI659244, AI161148, AI887436, AA192151, and D50922.